Irish Payohones

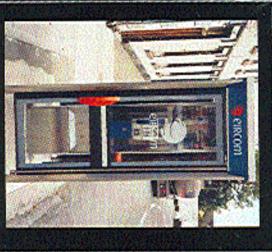


From Cong in County Mayo of the Irish Republic, a card/coin model operated by Eircom.

Photo by Jamie Stack



This could be the same exact phone captured by an entirely different person. But we doubt it.



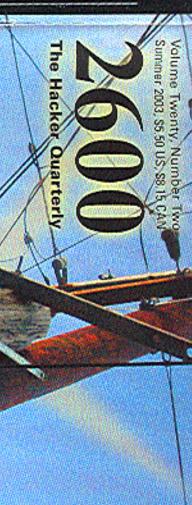
An outer view of the booth of the previous phone(s),



An entirely different type of phone from a different company known as ITG, whose phones can be found across the British Isles.

Photos by Raul Perez

Look on the other side of this page for even more photos!





"Television taught people to watch 'Friends' rather than have friends. Today, relatively little of our leisure time is spent interacting with other people. Now we spend it observing machines."

- Robert B. Putnam,



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Disrespecting the Law

made clear to us is that the law is the law. So it's a had law, the one thing that's always been especially telling when we see just how little disagree with it, whether or not we feel it's unthe law actually means to lawmakers and those fair, even when just about everyhody knows it's we must respect the law. Whether or not we Over and over, we're told that above all else

willing to give up everything in order to stand emment came about as a result of intense lobsuffrage, the civil rights movement, even some changes in the foceign policy of the U.S. govthe part of those trying to change the way up for something they believed in. bying, massive demonstrations, and people things are. The abolition of slavery, women's usually involves a good amount of secrifice on be corrected. It's rarely quick and easy and it There is a process by which injustices can

mitted to overturning an unjust law that has affect us quite directly, not the least of which is tempt to keep civil rights from crumbling into as to be almost unbelievable. But there are mil-Act have done to our country is so inglitering digital technology. What laws like the Patrict robbed many of basic freedoms in the world of DMCA continues to this day and we are com-While we lost that fight, the battle against the (DMCA), used to prosecute 2660 back in 2000. the Digital Millennium Copyright Act tions of people determined to fight back and at-We see this today on a number of fronts that

they're protesting against voice their objections to the law or policy rather, they use the structure of the system to dience tend not to try and escape prosecution; also disobeyed - those engaging in civil disobethat the entire structure of the legal system is ten carries a heavy price. Despite this, it's rare force the hand of the lawmakers, one which of Disobeying an unjust law is another tactic to

comical examples, we see exactly how little the perception. In some disturbing and almost things as due process, civil rights, and public ready in power have grown impation; with such But now we are at a point where those al-

law actually means to them.

pletely insane solution to a problem. This is a can teach somebody about copyrights." This isthose suspected of copyright violation. In his his interest in "destroying" the competers of they do). In a recent exchange, Hatch expressed to disrupt music downloads (yes, that's what ModiaDefender which has developed a product United States Senator. at some drunkard in a bar offering a comwords, such an act "may be the only way you volved in discussions with a company called Senator Orrin Hatch (R-Utah) has been in-

hysteria of the moment would keep their bla ple suspected of having music that they didn't right holders to back into the computers of pcoget legislation passed that would allow copy tion of America (RIAA) has in the past tried to Porturately, it didn't work - that time. tant attempt to bypass due process unnoticed an anti-terrorism bill, no doubt hoping that the pay for. In fact, they attempted to tack this onto kind of talk. The Recording Industry Associa And it's not the first time we've heard this

to-peer) is an important first step," he said. thing. "No legislation can cradicate the probposed another bill to do basically the same cess, Rep. Howard Berman (D-California) proinfringing file from being shared via P2P (peercopyright creators to take action to prevent an tem of peer-to-peer puricy. However, enabling Then, in 2002, right before the August re-

only if the damages were above \$250! would have to get permission from the U.S. atcomputer was damaged as a result of this immunity from prosecution. That means the like was going on there. And anyone whose network if they believed something they didn't block, and even damage a publicly accessible MPAA and RIAA could completely disable. So part of what this bill was pushing for was torney general to sue the perpetrators and then they wanted was illegal under all kinds of laws. There was only one problem. To do what

just got in the way.

fight against terrorism and certain laws and bation is overlooked because it's all part of the with their family because of a minor visa viola-

sic rights need to be overlooked because they

puter user twice if they were doing something the system he envisioned would warn a comtion by Hatch's recent comments. He said that New life may be breathed into this legisla-

The Freedom of Information Act is practically witness to this sort of thing on a much larger

scale. Civil liberties have become dirty words

a thing of the past. People who question palicy

to be reversed, society is forever changed in a mits what would otherwise be unacceptable lic. And, since these changes are unlikely ever changes to practically be welcomed by the pubour daily lives, ward spiral, has become an omnipresent part of the most essential ingredient in such a downare accused of being traitors. And fear, always

It's always the feeling of crisis which per

rounded into prison camps and held without charges, bail, or even the right to communicate self is enough to make most of us not care. The aren't citizens of the United States, which in iteyen to the news. Most of the time these people detention. It happens today and it's no longer only two years ago for people here to be very negative way. fact that someone could be held without charge or without even confirmation of their It would have been completely unbeand of

at http://www.freemikehtwasb.org.) neer Mike Hawash, held without charges for fore his trial. (More information can be found and it's not likely any more will be released bethe United States." Only extremely sketchy innext January for "Conspiracy to Levy War on five weeks and now scheduled to go on trial such as the case of former latel software engiformation has been given by the government But there are now increasing examples of U.S. citizens being affected by this as well,

ustice for one and all. Individuals break laws world is being made more secure. such things in the mistaken belief that their pect. Eventually, people will come to embrace valid way of obtaining information from a sus only that but torture is increasingly seen as a the rules on due process can be suspended. Not By being defined as an "enemy combatant,"

objectionable and "then destroy their computer."

destroying their machines," he went on to say.

In a civilized society, laws exist for a rea-"If that's the only way, then I'm all for

only reinforced the impression that the Amerirecent military aggressions of our nation have end, it does whatever it wants to do. treaties until they become inconvenient. In the can government merely tolerates laws and deesn't confine itself to within our borders. The and values that have taken centuries to shape The arrogance and disrespect towards laws

with reality. We've seen this all before in many to act with desperation and start to less touch

parts of the world throughout history.

Over the past couple of years, we've been

tage. But when governments break these laws an advantage or to recover from a disadvanfor a variety of reasons, usually either to gain

vide a level playing field and a chance of equal son. At least in theory, they are designed to pro-

it's because they fear losing control. They begin

even went so far as to pass a law authorizing crimes has alienated the United States even soldiers could be held accountable for war reaction to even the more possibility that our countries had already signed on). Congress perhaps most telling, steadfastly refusing to be ishing" any allies who refuse to go along, and, which may someday pose a risk to ours, "pun-U.S. serviceman accused of a war crime! (The the invasion of The Netherlands to free any (although the United States and 138 other answerable to the International Criminal Court leaders, preemptive invasion of any country (CC is located in The Hague.) Such a violent This now includes assassination of foreign

especially given our "superpower" status. zens. And a country that fails to respect internaof the world and, one way or another, isolated. from all law will be looked down upon by the rest The two combined is a trightening prospect. will eventually lose the confidence of its citi-A government that fails to respect its laws

else, we will soon have very little worth apply to them and which apply to everyone promote change. If we permit these with power and pay the price, using that process as a tool to public demonstrations, etc. or disobey them challenge that effectiveness through courts convenience to their agenda do not have the fighting for. to continue this pattern of choosing which laws ness of a law, there are but two choices - either Like the individuals who challenge the worthi right to exempt themselves from their power. Those who feel that existing laws are an in-

ROLL YOUR OWN

iis intrusion detection system

by The Rev. Dr. Jackal-Headed-God

If you're in the web development portession and get as many free professional subscriptions as I do, you will notice that at least once per year, each magazine will run a special odition on backing. Usually there's some sort of catchy over our age, showing, a shady character employed in symbolically nefarious behavior. Inside, you'll read about the latest woms, viruses, and "hasks" that you'r mission-critical web site might be susceptible to. Then you'll read reviews of the latest web site security software, gosp at the cost, and then either try to convince your bass to open her wallet or just move on It's the standard marketing tacte of scaring you into busting your budget.

So it's a given that there are plenty of top-shelf web security solutions out there. It's also a given that none of them is perfect. And, of course, almost all of them come with a hefty price tag.

This article well show you how to roll your own intrusion detection system for Microsoft's Internet information. Server (IIS) - one that's absolutely fice, 200 lines of code, and about 90 percent offer-tive. It assumes that you are running IIS 5.x for Windows 2000, with ActiveState Perl installed (free from www.activestate.com) and configured to nun CGI scripts. See ActiveState's decumentation on how to set this up. (Hint: don't freget to map .egi to the Perl interpreter, by default, only .pl is mapped. Sloppy.)

Attack of the Script Kiddies

So what happens when someone decides to Latget your web site for an attack? Typically, the would-be intruder will use the script kiddy tool do jour, which will sean the target site for a haundry list of well-known vulnerabilities. After the initial scan, the tool will come back with specific vulnerabilities; and wait for the exter to exploit from. This is analogous to walking around a boose and loudly knocking on all the doors and windows, looking for one that's unlocked.

What we've going to focus on is not how to avoid subcessibilities (read cert.org thilly, keep up with vendor patches, be alon, etc.), but rather on how to take advantage of your server's invulnerabilities. We'll bisso for that knock and answer it.

How IIS Handles Server Errors

What happens to all of the exploit tests that Isal? Usually, they generate server errors (403 Avecess Furbation, 400 Bad Roquest, or 500 Server Error). These server errors are duly noted in your web screen's error log and are never, ever noticed. Why? Bosause no one looks at error logs, of course, And if they do it's usually too late.

In addition to writing an entry in the error log, IS will also display a page to the user informing them that an error has occurred. These cannot enror responses (there are about 60 of them) can be lound by default in CEWINNTHOOPERS (an bemon. Take a look; you'll find one than the for each that of error that HS understands.

Overriding Default Error Handling

Fire up Internal Services Manager on your web server (usually under Administrative Tools in the Start monu). Right-click on your web sate, click on Properties, and select the "Custom Errors" tab. You should see something like this:

<u></u>		Jalana Fa	400.5 Fab	€00.4 Flo	₩ 400.3 File	603.2 File	Wang Wang		10 405.4 File	401.3 Fie	101.2 Fie	101.1 Fin	
Care	Edit Propert	PAMINATURA	COMMITTEE	COMMUTURAL COMMUNICATION OF THE PARTY OF THE	THE SANKAGO	COMMITTEE TO	PSCANNESS:	CAMINITARY OF	C COMINNESS of	COMMINIONS	COMMINION	CAMMINTAN	Section of the section of

You can see that each HTTP error is mispool to an .hrm file, the same files that you found in the fishelp directory. These pages to a fine job of in forming the end user that Something Bad Has Happened, but they don't do a thing to alert the system administrator. Let's tix that.

Introducing Watcher

Watcher is a very simple, 200 line Pert script that warches for suspicious server errors and lets you know about them. The source should be dropped in an appropriate folder on your web server inside the web root. Let's see what it does.

The program opens with the standard #Unserbin/pert header - not necessary in the Windows world, but UNIX habits die hand.

Configuration lines go first. We start with the address for the main recipient for e-mail alerts. Note that the @ is escaped with a backslash. Keeget Dis, and you'll blow the script up. Next is a list of additional addresses for our netficiation.

SMTP (Simple Mail Transfer Protocol) server information is next. The snapServerName variable

is set to the IP address of an available SMIP server on your network. This server needs to be able to send mail to the outside word. The sample kup-Parh variable is the part to a specific fielder or due box that the SMIP server watches for new outgoing mail. By default, it's criticapablanathroot? pickup? Note the double backshashes.

Finally, we have a list of HTTP errors that we want to watch out for. The default list should cover all the arror interesting situations, but feel free to customize it if you want. If you're observant, you'll notice an error code that doesn't belong: 1013. This will be curreatch all for those server errors that ITS will be chreatched.

There are four subroutines

We're going to make IIS pass os the specific HTTP error code through the path, so the first subroutine (getError) simply extracts this information from the URL.

getDateTime does just that - grahs the current date and time and formats it for easier ceating. Most web servers use Greenwich Mean Time, so we'll solvest say boirs (21600 seconds) from the time to convert to Central time. You can do the math to modify this line for your local time zone.

returnHTML handles the osci-friendly error message that is returned to the hyberer when the error occurs. You can customize the HTML in this subcouting to display whatever you want.

Finally, writeMail gathers information about the server, the error, and the browser that caused the error and compiles it into an e-mail message. This file is then drapped into your SMTP server's pickup directory and you get an e-mail warning that something's happening on your server.

To configure IIS to use the Watcher script to heardly server errors, go back into Internet Services Manager, select Properties for your web six, and go back to the Custom Errors lab. you belied click on each cutry that corresponds to the Serrors code that you found in the Watcher script. Change the Message Type to URL, In the URL field, enter the relative URL to the Watcher script (e.g. legiwatcher.e.gt). Hit OK, hit Apply, and stop and start your web site just for good measure.

To test your configuration, start off by just applying the change to error code 404. Modify the @urgger list to include 404 as a mail-triggering condition. Then fire up a browser, point it to your web site, and courest a page that doesn't exist (e.g. fee htm).

If your lest was successful, you should see the error page from the Watcher script event up in your browser, and you should have an ennall in your in box. (Make sure that you remove 404 from the @rigger list.) If you don't see the error page, you either didn't put the correct URL in the error mapping diding box, you don't have permissions set up on your cgi directory, you forgot to map agt to the Parl interpreter, or you otherwise didn't follow instructions. If you don't receive an o-mail, make

sure that you put in the connect e-mail address, that your SMTP server is set up proporty, and that you mapped to the connect SMTP pickup directory. Beyond that, I'll have to leave it to you to figure out what you did wrong.

Spring Forward

Among the information that you receive by mail is the software used to access your site (050-sily a web browser, but sometimes an auromated script), the bad HTTP request that generated the error, and the IP address of the would-be introder. Here's a sample, with IP addresses wed out for the sake of liability:

A server error occurred on 3/8/2003 at 1:27 are CST. Details below.

This error message was returned to the user:

Access Forbidden (403)

Access to this URL is not allowed. Please use the Back' button on your browser.

REQUESTINFO

Referrers

http://xxx.xxx.93.10/_ytl_cnf/..%255c_%255c_% 255c_%255c_%255c_%255c_%256cwinnt/system/2/

emd.exe?/e4dir1et\

Query String:

403;http://xxx.xxx.93.10/_vti_cnf/..%255c..%255c.

.%255c..%255c..%255c..%255c-innt/system32 /cmd.exe2/e+dir+e//

Protocol: HTTP/1.0

Method: HEAD Port: 80

O3KR JNFO

Remote address: xx.130.93.214

Remote host: xx.130.93.214

User Agent:
Remote Ident:
Remote User:
Authorization Type:

RESPONSE INFO

Script name: /errors/httperror/gf
 Content Length: 26791
 Content Lype: tex/httpl
 Path Info: /errors/httperrur.cgi
 Translated Path: Ciwebroodsomesit/vg/watcher.cgi

Windows Directory: C/WINNT User Profile: C/Documents and Settings/ContProdSec Path: C/Perfbinit;C/WINNT/system32/Whem;C// WINNT;C/WINNT/System32/WBEM;C//WINNT/ System32/WBEM;C//WINNT/ System32/WBEM;S/NMP

Notice what's in the Request line under KEQUEST INFO, Why, it's someone altempting a Unicode Directory Traversal exploit. Goddu.

You can use the user prefile information to 6 a tracercoite on the "Remote Address". IP address to find out where the attack is coming from. Next I recommend using whois, belong to find out who owns the IP. Collect everything you'll need later, because odds are they won't be around for long. Get on the phone with your provider for your MIS staff) to block all traffic from the subnet of the

artacker while you pertscan the miscream and, uro, do whatever you feel is justified. (Hint to all script kiddles: make sure your box is secure before you go burning for exploits.)

Room for Improvement

Watcher is a passive tool, very simple to implement, that will give you at early warning with just about every clumsy attempt to find and exploit a vulnerability in your IfS-based web site. Having said that, there is a lot of occur for improvement. For one thing, when your site does come under at tack, you're going to get a lot of e-mail. Any Perl hacker worth his salt could extend Watcher to thoutle the number of e-mails that it will send in a given period of time. Logging all suspicious activity to a file wouldn't burt either. And many worchs, viruses, and exploits heave a signarure - like that garbage in the Request line we saw earlier - that can be used to identify the type of attack that is being attempted.

Eve kept Watcher simple and clean for the sake of this article, but once you get familiar with the concept, there's a lot that you can do to extend it to sait your particular needs. Best of all, you don't have to beg your boss to pay for it - it's free.

"46" - - "Red Segment Due to maiformed agence, the Imagenet socied not be understood by

to the derived do not extend to some personal required to Ind. on the deposit Theorem when the credentials passed to Ind. on the development theorem, Theorem worked the New York Science of Science (Theorem 1997) and the some personal colors account the temperature of the source of the source personal colors account the temperature of the source of th

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"eff.3" - "entrievends logo falls due to serve configuration like entre configuration like entre configuration fact to the process of the first configuration in the process of the first configuration factor for the fall of the first configuration between the first configuration of the first

Note the configuration paramethy the classes do not have access to the particular resource cover indicates accounts which the classes to the particular resource covers to the particular resource of the server. This accounts which the classes that particular is the particular accounts on the server that for needed to provide the little indicates the additional particular accounts the little for the additional particular accounts the country of the cutter additional particular accounts the country of the particular accounts the country of the particular particular accounts the country and their particular accounts the country of the particular additional particular to account the couponted countries.

"401.4" -> "Unumberhood; Authorization failed by Diber(This cope inclinate that the second but a first program installed by weithy norm properties to the second the authorization and to receive to the authorization and a second by the first program. States rathe a norm of the entire address of the second and the second by the first program.

you were mysta to account and then conduct the Web server & administration to rectly that you have paradesism to severa the requested resource."

*432.5" > "Characterised workering to include by ICAD COST applicit error indicates that the address on the Nob weight yet attrapted to the Sun at 1997 of the proper indicated that weither even including before proceeding the extension used to connect to the severe win design account to proper the severe win design account to proper Sunsain and that contain the weight property about the requirement of the entire willings you were trying to account and that contain the weight account to design and that contain the weight account to design and that contain the weight.

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"ATS I" as "Recorded: Execute Access Borded Society Society Consideration and the comment of you may consider a COU. SAME, on other association propose them a discretely than Seas not allow progress to be one outside. Picture persons to be the access with the constraint problem, personally and the second to be one

"473.10" we "haven Tochidden Invalid Contquestion for a contiguration problem on the Nationary at this time, strong contact the Nationary additionary of the problem problem.".

"400.11" - "Recent Deckidden Parkers County [In.s tieve out to access if the twee the access the stony possessed during authorization. Plane tedorich the page and try syste. Planes contact the Mob server a sandránteator of the product products."

"400.12" -> "Access Farbidden, Ragner Schick Access Forest care may be been denied access to this Pop with Jurise contact the wide Access Access to reliable thing conditions per reliable. You can also change your electionable and benzy, if appropriate."

*473.7° '> "Forbidden: And notice with interest on the description of the country of the second of these is no descript pay working the middle of districting because and best scalable for the discript, or it you are trying to display an NYM, page that the discribe on a discripting stated for Execute or addit persistence only likely out the Execute or addit persistence only likely content to Yeb servers indictocurrance if the positive products."

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*431.6" or feeting regions, or it you do not have permission to connect to the acts. Steams connect the Noticenter's afficients ordered.

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"654" so "Tage Not Found the outset could not leaden the gage that you requested.".

"415" or execute identified by the indicate along control that period in the Region line is not allowed that the present identified by the indicate. Along control that you have the proper attention by the the frequency of our registering, Europe contact the source to administrative if this positive persists."

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Iraversing the Corporate

Of course, your joy was quickly curtailed when at that major corporation? Finally, job security! news groups, ire, spa, etc., etc., etc., was via HTTP or HTTPS. No personal mail, no you realized your only access to the Internet Remember the day you started your new job

ploit it for personal use? What fun is a corporate job if you can't ex-

Groups was not going to satisfy it.

I needed my newsgroup fix and Gangle Discover

and to work through your own or a friend's this is a way to tunnel any TCP/IP connection. People are corrently using HTTP tunneling, but bosuport and connect to the remote machine. or news client or any other client to the localthrough it. Then you can point your mail client can connect to it via SSH and feeward ports at home with high speed Internet access, you the SSH elient. This means if you have a server machine to a port on any remote machine via specify forwarding from a port on your local Forwarding. Port Forwarding allows you to many SSH clients allow you to perform Port itself is basically just a secure Telnet. However, traverse the firewall using SSH. Now, SSH by I did some researching and found a way to

port 22 and the firewall has that blocked. Big deal! You have two options: I know what you're thinking - SSH runs on

nal name or internal IP address. Here is how I on the local server. It can be referenced by intertraffic through the SOCKS proxy and to port 22 the given port. This way you can send your SSH the standard 1080. You can then configure your proxy on your server. You can configure the SSH client to use your SOCKS proxy server on SOCKS proxy to listen on port 443 rather than This method requires you to set up a SOCKS

Internal IP: 192,168,1.1 External IP: 123.123.123.1 Home Server Name: gonzo

Configure SOCKS proxy to listen on

SSH remote bost as gonza or 192.168.1.1. socks://123.123.123.1;443 as proxy. Configure 123,123.123.1:443. Configure SSH to use

a proxy for other programs if you like. most people will assume SSL and leave you ning an SSII server by blocking port 22 and usalone. You also have a SOCKS server to use as ing SOCKS to connect to it. If you are scanned, You are obscuring the fact that you are run-

tions to the local box. would be to configure it to only allow connecers may find it and use it. The best thing to do If you leave your SOCKS proxy open, oth

to use 443 instead of 22. server to listen on 443 and set your SSH client This method is very similar; just set the SSH

Easy to set up.

are running SSH and try to connect or exploit it If someone scans you, they may realize you

Conclusion

only can you use it for POP3, SMTP, NNTP. see the power of using port ferwarding. Nor fie stats on you, none of this will show up. It rate security group is smilling or gathering tradtop at home! And to top it off, all traffic running machine at work and connecting to your doskvices. Imagine opening an RDP client on your ete., but you can also use it for terminal serwill look simply like an encrypted session with through the tunnel is encryptest. If your corpo-Once you get this up and running, you will

Good luck!

Software Used

SecureCRT - www.wandyka.com definitely Linux equivalents) SSH Clients (these are all for Windows, but there are NSH Secure Shell - www.ssh.com

Модаге - мунимиедительно SSH Servers (Windows) SOCKS 5 Frany (Windows) VShell - www.vandyhe.com

> 阿医

Here it is on an Internet payphone in London! These days you see the Blue Screen of Death everywhere

Photo by Glen Barnes

The 2600 IRC Network Is Back!

with hackers in mind. Start your own channels or join existing 2600 nangouts Join in the fun on the Internet Relay Chat network specifically designed

#26(X)YY where YY is the two-letter country code as used on the Internet Canadian 2600 channel is #2600CA. So the California 2600 channel can be found at #CA2600 while the the two-letter state code, 2600 channels in other countries use the format 2600 channels in the United States use the format #XX2600 where XX is

Just set your irc software to point to irc.2600 net and start exploring.

blindly accept anything anyone else says while using IRC.) (For the record, we are not implying that IRC is a substitute for real life nor do we encourage anyone to

IN THE INFORMATION AGE

by Lucky225

Identity theft is a growing crime. Many people do not realize just how easy it is to obtain information and use it. Personal information such as your name, phone number, and address can be obtained as easily as making a phone call to a utility company such as your local electric or phone company. In this article I will run by a few social engineers I have used in the past that have proven to be reliable time and time again. I will also provide some solutions to being protect your information.

Scenario I: Have name and address but need phone number.

A simple call to the electric company is usually all that is needed. The following pretext will show how easy it is to obtain an unlisted phone number.

Electric Company Representative: Thank you for calling Edison Electric Company. How may I help you?

Year. Yeah, I'd like to check my account balance.

Electric Company Representative: Okay, what's your service address?

You: 2600 Hertz Ave, Beverly Hills 90210

Electric Company Representative: Okay, 1 show a current halance of \$92.68.

You: Thank you, and could you verify the phone number on my account. I med entering mine at the automated prompt and it said it was invalid.

Electric Company Representative: The one we have on the account is \$85-1212.

You: Thanks.

Scenario 2: Resident has recently changed their phone number.

A lot of people who like to keep their phone number private believe that if someone they don't want having their phone number somehow obtains it, that they will be safe by

simply calling the phone company and having their number changed. A simple and easy social engineer proves otherwise.

Telco Rep: Thank you for calling Bell. How can I help you?

You: Hi, I recently changed my phone number, and the problem is I lost the paper that I wrote the new number down on I feel so stupid.

Teleo Rep.: Oh, that's okay, what was the old phone number?

You: 555-1212.

Teleo Rep: Okay, and you are?
You: John Smith.

Telco Rep: Okay, your now number is 5-1313.

You: Thank you so much.

Scenario 3: Have phone number but need address.

as 888-735-2872. This automated number is you enter it it will read back a name and adprobably the easiest out of all the socnarios at 2600 Hertz Ave.?* give it to them, they'll say, "And you still live quickly. All you have to do is call Pizza Hut versing phone numbers to addresses is to call such information. Another good way of rezine subscriptions and companies that sell the information is concert. How can they the Florida in case you are planning a trip there. then ask for your phone number and after you and tell them you want a delivery. They'll phone number to pull up your address przza delivery companies like Pizza Hut. A this? They get their information from magesupposed to send you free information about An easy way to do it is to call a number such lot of the time these companies use your dress associated with the number and ask if They ask for your phone number and when Reversing phone number to address to

And here's yet another social engineer involving a popular utility company:

Telco Rep: Thank you for calling Bell.
How can I help you?
Your Til like to short my halance

Your I'd like to check my balance.

Telco Rep: Okay, what's your phone

number? Yea: 555-1313.

Teleo Rep: I show a current balance of 856.78.

 Iow Okay, my bill hasn't shown up in the until yet. Can I verify it's going to the right address?

Teleo Rep: I show 2600 Hertz Ave You: Thanks.

A lot of the time people use PO boxes for their billing address, but you'd be surprised how many representatives will give you the real address if you simply ask them to verify the service address on the account - the service address being the address where the phone service is.

Scenario 4: Obtaining Social Security Number information.

This is probably one of the harder social engineers to actually pull off due to the sensitivity of the information. However, I have been able to do it using the following social engineer. You will probably need name, address, phone number, date of hirth, and possibly more information on the account. I've successfully obtained SSN information without runch verification. The good thing about this is you can try it on almost any utility company.

Utility Company: Thank you for calling. How can I help you?

You: Hi, I'm trying to sign up for ordine billing so I can check my account through the Internet.

Villey Company: Okay, how can I beip? You: Well, I went to your website and every time I try to sign up it keeps telling me 'invalid social security number,' I was wondering if you could help me out.

Utility Company: Sure, what's your user name/address/phone number (depending on what utility you called)?

You: (insert information here)

Utility Company: Okay, the social security number I have on file is 000-00-0000. Is

that yours?

You: Yes, I guess the website is just messed up or something. I'll try later, thanks,

Okay, now that I've shown just how easy it I is to obtain information over the telephone. It magning to give some rips to help protect.

your information. First of all, in the state of California, a utility company cannot deny you service simply for relusing to give your social security number. However, another form of ID such as a driver's license may be requested. Cellular companies are exempt because there has been no legislation restricting them. But the California PUC has this to say:

avoid a repetition of this type of incident. great pains to train its agents and staff to the future, SB Cellular is univised to take mother's maiden name, or a bost of other could have easily verified complainant's retrospect, it is apparent that SB Cellular seleplente service. While a social security means less torrasive of privacy converses, by b) address, dates, and places of employment, creditwordsiness by other medicals, such as somer to accede to that request... In ficultion, there is no regalitement for a connumber may be requested as a form of identisumber as a condition precedent to obtaining wae to disclose his or her social security There is no requirement... that requires

(P phone service at www.yonage.com. band Internet, you can sign up for voice over prepaid cellphone service. If you have broad company giving out your service address inthe bill going to a PO hox, or simply have your phone number may result in the phone address. If you are concerned that giving out Use your PO bOX or PMB as if it were your thing and have it come directly to your house. livered to your house. Don't subscribe to anyif delivering, or simply don't have things depuzza places your real phone number or name on all of your utility accounts. Never give your real address. You should put a password PO box or private mailbox. The only thing tion, you should have all your bills going to a hox and give that out to anyone who you address, get yourself a pager or a voicemail formation, you can use a cell phone and have don't trust with your phone number. If you left is your service address which remains are concerned about your address informahaving your phone number more than your If you are more concerned with people

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Hardware Key Loggin

drkhypnos314@hotmail.com by XlogicX

laggers out in the market. I'll discuss one of nesses. There are a couple of hardware key the benefits definitely outweigh the weakdo have their disadvantages, though. I fee hardware key loggers. Hardware key loggers strokes of a keybeant. I'll be focusing on the ware or hardware that intercepts and stores be built (if you're afraid of being 'socured' theory of how they work and how one could the mure popular ones. I'll also go over the A key logger is a device or piece of soft-

by the 'homeland'). Disadvantages of Hardware Key Logging

up 64K, it's plenty enough to get accounts the buge hard drives out there, but if you 64K. It may sound bad in comparison to all of free disk space on the hard drive. The limit of logging, the limit is usually the size of the of the first notable limits. With software key Only Memory) you wish to purchase and are (Electrically Erasable Programmable Read logger, the limit is however much EEPROM and passwords. Also, if you make your own think about how much text is required to take the commercial logger III go over is only able to address. Limited Storage: The storage space is one

and connect the logger below the computer this disadvantage is get a PS/2 extender cable see. It looks like an inch long PS/2 adapter. puter is visible, the logger is pretty simple to visible. One thing I would do to overcome somewhere out of site. though it doesn't look suspicious, it is still Visible Detection: If the back of the com-

just build your own logger. able by the way it operates, which I'll go over keys, spaces, and backspace. It's understandkey logger can only record alphanumeric later. One way to overcome this problem is to No Control Characters: The commercial

065518 bytes free

J. View Memory

Eruse Mensory

is probably the biggest disadvantage. The need to physically access the computer. This this one is to pick up the hobby of luck pickonly thing that I can think of to help around Requires Physical Acress: Yes, you do

6-Search for Strong

4-Disable Reconfing

5-NETPatrol Output 3-Change Password physically accessible. portant computers can be left unattended and ing. Though, it is surprising how many im-

Benefits of Hardware Key Logging

power, so the BIOS password can be logged. starts operating as long as the keyboard gets BIOS Password: The hardware logger

terrible. cessing the log is stightly different, but not need to interface with an OS to log keys. Acares independently from software, it doesn't OS Independent: Since the logger uper-

doesn't appear in task list, or on bard drive. It keyboard to computer. atso doesn't cause any noticeable lag from ger is hardware, it doesn't suck resources Underectable with O.S.Software: The Ing.

plug it into the back of the computer. sary to get the logger up and running is to software as an attachment. All that's necesneed to log in or start the computer to install the logger. There's also no need to send any Login Access Net Required: There is no

KeyKatcher

(keykatch), and a display like this shows upis Notepad (although you can use anything tween the computer and keyboard chord. The a small PS/2 adapter. It is connected in besnooping around on it. This device looks like computer just to see if my roommakes are your privacy. I have mine connected to my price is pretty steep, but depending on what at www.keykatcher.com for about \$80. That gor that I'm most familiar with, I purchased it Notepad and type the default password software recommended to access the logger that contains a text field). You open up you do with it, it can be a valuable tool for This is the commercial hardware key log-Reykutcher 64K 3..

many to choose from (68HC11, Basic Stamp, and easy to use microcontroller. These are worth to most people, but that's what harkers are for, right? I would start with some small This is definitely more work than it's

about 15-20 seconds consistently no matter worth the wait. slow (could take an hour if full), but can be logger into the text field of Notepad. It is Erase Memory: Does exactly that, takes View interiory: Dumps everything on the

how full the logger is. password, can't be more than eight characters Change Password: Allows you to change

your email, the keykatcher prompt will come that right when you type in your password for your normal passwords. The reason for this is up in the password text field, not too fun. wouldn't normally type, especially one of is to make the password something that you (shame), and has to start with an alpha. A tip

key logger nothing more than an extended Disable Recording: Effectively makes the

arets and displays what surrounds them. NETPated Output: Finds all www, .com,

your own string and have it searched. Search for String: Allows you to enter

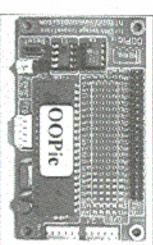
other than 1-6 will exit too. Exiting can be close Notepad and go into something else and more important than you think. If you just five numbers), it will reset to it. accidentally type the number 1 (or the other Exit: Gets out of prompt. Any other input

How It Works

your keyboard. That's what gives you the many other commands that aren't even on it would execute it instead and you wouldn't AbsWord as well. Noteped or Word. I've used it on emacs and the computer. So it isn't just limited to lugger itself can send low-level commands to ability to use text-editing software, since the this is that if it tried to display the backspace, displays the backspace as "//". The reason for It can't store all keystrokes because some of see it, along with enter, control/alt/delete, and passes the same into through to the computer. them are treated as executable commands. It keyboard, it goes to the logger, stores it, and furniware. You type a character over your This is basically a big buffer with some

Some Theory for Building a Logger

OOPic). I would choose the OOPic (Object



about how the technology works. strake. That's one of the fun parts of backing; some output pins up to a PS/2 extender, and found from www.oopic.com. The developdata, try and figure it out, and learn more you poke around at something, look at the fun part is figuring out what data means what send those strokes out to the computer. The incoming serial keystrokes as a list, and then you've thought of something creative. For the will probably require some soldering, unless connect the extender to the computer. This delined input pins on the OOPK, then wire thing. From that point on, connect the wires this application would be oSerial for obvious with the controller is all of the objects that are iarity. I purchased this from a distributor I of EEPROM, and can be programmed in Baprogramming, write a program to store the from the keyboard's PS/2 connector to some reasons. You can set the band rate and everyincluded with it. The most relevant object for ment kit set me back \$70. The benefit I like sic, C++, or Java. I use C++ just out of famil-The OOPic is relatively small, can store 64K Oriented Programmable Integrated Circuit)

Ethics

edge of what's out there, and probably won't again, they are more secure with the knowltoo, and I still even feel a little dirty. Then learn a little. I have gained access to others is recommended, since it may force you to the level of script kiddle. Building your own sole rool for getting into systems, you're at the back of their computers by routine now). let it happen again (cause they look around that I did it afterwards. I tell them how I did it people's computers this way, but I tell them If you use the commercial logger as your

Shouts: Medicine Soup and James.

reeling Gran

stant and offline access to exol stuff with no advostisements. archives of a website. Most of them involve in-There are maken of substant fution our order.

website and you've cost the makers of staff you tion here is simple - peel the website and you alyou want to peel the site, not rip it. The distincto tear at theirs, you may keep others out. Eko a good deal. You may have also cost them adup making their ISP have a coronary. Rip the low other people to use it, and usually don't end views; when you're utilizing all your bandwidth The important thing to remember here is that

going down when you suddenly pull ten gigs (a don't want your favorite public domain MP3 site bandwidth controls on your software. I mean, you in a little ever a day, night? lest of money in bandwidth terms) weeth of stuff So, as a procession, remember to keep the

Watch Your Lunguage

it makes quick and dirty development a joy. If up data processing language. It's got simple intersuch All I have to say to them is, piss off. PHP is API functionality, the wonderful PCRE libs, and races for network connectivity, life access, Win92 well designed for what it is: a brilliantly suspect me it's not a real language, it's for pussies, and you think I'm a puss for that, then I can only say Moo-oww, haby." Eve been criticized for loving PHP. People tell

What Would We Peel?

a simple chore to write code for. The pseudocode comic is currently listed on the home page. That's comics serially numbered, from zero to whatever Megatolys, an excellent webcomic has their 2008 something like this: Say, for example, you're a come conneisseur.

Open www.mrgatakya.com, port 80, send "GIT! HTTP/I.Gecoffs emily " (standard

damb browser requests

Parse and foday's count intage mane

figure out how many we must get to be up-todese from previous alteriots

for last_sared+1 to correct:

if response = 200, way the bridge open connection send HTTP header check response for error

Why's This Grape Shaped Like A Stapler?

Well, it's not always easy.

method are we to use to get around this? comic bookkeeping. Penny Arcado, for example, works on a date and scripting system. What See, Megatokyo is a bit of an exception in

telact to poir 80 and type in "HEAD / HTTHYLO" of using GET, we use the HEAD http method. For still count past all the possible dates, but instead If you get 20th you're OK example, a good "idiot light" for a webserver is to Quite literally a different method indeed. We

So, the new pseudocode is:

Ger today's date.

Stare November 18, 1998 samonthere. Since this is Penny Arcade, your ass would be an

appropriate spot

Check to see if we have already got some person areade. If so, get the most record date we've downstauded, add one, and replace Nov 18 **後 555 万**

For fast_dute to poday:

if response is 200, send an equivalent GET request Same the timpes send HEAD reguest (knep connection alive) might as well with all we'll be doing here)

teach you the necessary skills for website poeling. de different each time you do it. I'm just trying to Right, Just so's you know, it's going to be a lit-

New Tasks, Closing Arguments

scheets and buttons. This is where PCRF choosing content, but avoiding stupid things, like matering comes in. gram selectively pick images from a webpage Now, sometimes you'll have to have your pro-

is, is a fun page to my ripping. Twenty some girls every image. All of 'em. ing the manly backer-type you are, you saw have an average of 60 some piex of each girl. And, he For example, the Page3 com, softence poor it

for you to use, and in Perl... well, they're called it's built in, and in C/C++, there are libs and DLL: pert compatible for a reason, ya? Use whatever Ped-Compatible Regular Expressions, In PHP So? As said, you can make use of PCRE, or

coworkers see. As such, I'll let you do the pulling up softcore porn, while fun to do at home is not the smartest thing to risk having your process, but gaite frankly. I'm at work, and I was going to post up the code for this

> with links to the relevant documentation. research and exercise yourselves. I'll leave you

language for the starting programment. http://www.php.net/ - PHP; a nice bandy

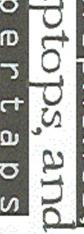
https://www.cs.ringinia.edu/~lice-wind2/~lice-wind2: a

decumentation, and everything you need to know about IXRE. You must welcome the headache. lovely ANSI C Compiler for windows programming http://www.pcre.org/ - PCRE: the dils and

does for the preg_match() function. terms after the initial stash. I'm serious here, the coel functions without it. Additionally, an http://www.php.net/peg_match_will_get_you_tho easy way to find stuff is to simply put your search out, got the 5MB package. You can't play with all Just a quick pore on PHP: If you want to try it

tion at a time, please. Just cemember to keep it down to one coonce-

Supertaps Microphones Laptops, and



by Dark Spectrum

them since you know how good their room you'll watch what you say near any mic. stream from a PC mic. After reading this article. pickup is and how easy it is to capture the audio puter monitors. You're careful what you say near Vesse 303 or AM-232 required high up on comten see omni directional mics like the Labtec the home, the workplace, and in schools. You of-PC microphones are everywhere. They're in

tive than a wiretap - it can be set up from thouhijacked mic is frightening. It's much more effecn't been compromised by a third-party innocuous-looking equipment to create a 24/7 eavestropper? If you think about it, the idea of a monitor on an entire room or office cube. Call it a sands of miles away and uses existing worthy ewner, but how can you be certain it has 'supertap." The PC might have a henign or even trust

speakers or topics can be picked out via speaker could anyone possibly do with such an over-Simple correlation-based methods can track a rather than directly to a single computer. What specific individual through a field of microrecognition and speech recognition technologies piques can reduce the bandwidth a lot. Specific the newer VAD (voice activity detection) techsimple old VOX (voice operated transmission) or whelming sheam of information? Luts of things: are loosely connected via a network of systems Mistress. The only difference is that the IC mass back to Heinlein's classic The Moore is a Heros full of PCs with omni mics, it's time to think When you see a lab, office, or school room

>

the others? (And there are lors of them.) Direcand buried in a docking station, or left discenmics? Close-talking mics used in those PC headtional monitor mount mics like the Labtee Verse nected and lifeless on a conference room table? 313/AM-240 or the directional desktop beom hapton is open. But what if the hapton is closed has a tiny built-in mie which is exposed when the partitions? Don't forget that almost every laptop sets you see lying on dosks or hanging from cube OK, so much for ornai mics. But what about

configurations makes a perfectly good bug for all recording gants to their maximum values. are effective enough to form the basis of a superthat's necessary is to use 16-bit audio and adjust tap. It doesn't take any rocket science, either. All the PC's immediate vicinity, and some of them The chilling truth is that any of the above

good, but it will certainly be intelligible. field roose, and the four-bit speech won't sound available. The high gain with create highly amplileaves you with at least 12 usable bits. You can ize it, and still have four bits or 24 dB of signal percent of full scale), boost it by 256 to normalrecord an almost-inaudable 48 dB signal (0.4 iems lose three or four bits to noise, but that still powided by 16-bit audio. Most PC audio sys-The only black magic is in the dynamic range

microphone boost is enabled. Use your favorite click on the "Advanced" botton to verify that the andio editor for recording. If you don't have one. pose fine-memic jack and in that case you should you have a laptop then it might have a doal-purthe mic is selected, and to set its gain to max. If ing Control panel (sndvol32.exe) to make sure see what you pick up. It's easy. Use the Record-Don't believe me? Then why not just try is to

Sec. 1889.

You need good audio output to hear the results. Headphones are best, but external speakers are also good. You will probably have to boose the output level. That can be there via your headphone'speaker volume controls and system playback gain controls (sndvol32.exe again) but you'll get less distortion if instead you use Cool Edit or Gold Wave to normalize the audio before playing it back.

There are two microphone configurations that are particularly challenging: high-quality PC headsets and docked laptops.

and as afreedy calculated than's all it takes. The tures seems to live up to its claims. Even so, it don't. For example, the Anthea Electronics NC: seanree/index.html), Vox Recorder (ninopoists, examples being Scanroe (www.davee.com/ use a speech detector. Those features are found in any PC headest as... supertag-capable. For a develop a custom speech detector for it. Chalk up ary to you DSP types) which means it's easy to records ordinary spooch five feet away as 48 dB 65 stereo garners' headset with anti-noise feautilities developed by seamer/hant radio hobbylong-term test you'll need to record to disk and background noise is steady (wide-sense station-High-quality headsets with close-talking mics any sound, from any angle, in any position. Cheap headsets are no problem. They pick up

> freeweb-supereva.ib/tadis/WixRecorder/index.htm), and RocAll (www.sagebrush.com/recall.htm). Docked laptops don't work as well. There are two reasons for that. First of all, high frequencies

use open frame docking stations with the mic on to free air and therefore produces better recordings then don't log the audio to disk. For a worst-case if you're experimenting with a built-in laptop mic disk drives. Fans produce continuous noise due have lots of noisy neighbors in there: fans and has to pass through to reach the raic. That makes the right side of the keyboard so it's much closer from the immediate vicinity. Newer Dell laptops the mic is centered above the keyboard far away ing station is fully enclosed on three sides and scenario consider the (aging) Dell J650; its dockhard to filter out since they zren't a steady noise; to air flow. Disks emit transient clicks that are bles. The second problem is that the mic might reduces faraway speech to meaningless mum the cues people use to recognize speakers, and consortants harder to understand, masks some of are attenuated by the narrow passages the sound two reasons for that. First of all, high frequencies from any open air, but it can still pick up speech

I'll close off by explaining the "disconnected and lifeless laptop." Modern laptops have power-management features which allow you to configure how they behave when the case is short. It's sometimes possible to configure them to simply keep on running when closed up. That still leaves those blinking LED's, but any doofus with a screwdriver and wire cutters can distribe them. What's left is a high-capacity, highly configurable data logger. It isn't likely to be hijacked by a third party, but it's still worth mentioning as a mic to be wary of.

OPTIMUM UNITAC

by Screamer Chaotix screamer@hackermind.net

For years the telephone companies of the world have pulled the wool over their customers' eyes, forcing ridiculous charges upon them and blinding them from the truth. Hackers rose against this, pointing out these injustices and showing everynne exactly what was happening with the technologies they knew nothing about. Now, a new theat is present.

Only this time it's not the teleos, it's the cable companies.

This article will focus on Optimum Online, a well known cable modern provider in the Connecticu/Long Bland area, but I'm certain these tactics are in place all over the country. Optimum Online, like other cable providers, sells you a cable modern and NIC through The Wiz retail outlet, along with their service. Upon installation of their

hardware, you register with them online, where you are then presented with their terms of service (mind you, you've aheady purchased the equipment). Once set up, you're ready to go and, like most people, you'll be arrazed by the high speeds.

ready to go and, like most people, you'll be arriazed by the high speeds.

I however, if you're like me, you had a few and questions before you made your purchase, um. The first, in my case, was a simple one: "Is this equipment compatible with Linux?" The man at The Wiz assured me it was, although due Optimum did not support that particular operating system. I booked at the NIC and noticed it was an ISA, which didn't sit well with me. I asked for a PCI, but he said that's the only case one they had. Fair enough. I had his assurance it would work with Linux, so what was wear there to fear?

That was the first problem, but it certainly wasn't the last. The NIC did not work with Linux, and the only way it would was if you wrote your own driver more or less. Unfortunately I really didn't have that kind of time, especially when I was told it would work out of the box. Nonetheless, time went on and I eventually get a card that did work. Problem solved I was now online and enjoying the incredible speed of my cable modern. Here was where the new problems began to creep in, as pointed out by this email I received from Optimum themselves:

Dear Optimum Online Subscriber:

You may be ranning a server from your computer and not even know it.

If you use any of the peer-to-peer file services listed below without disabiling the file sharing option, the entire laterast can access the files on your hard drive. In addition, use of these services can lead to retwork problems that may result in your upstream speed being temporarily reduced to control this abuse of service.

Ainster, KaZaA, iMesh, Andiogalaxy, eDonkey2000, NeoModus, BearShare, Gnotella, Gnacleus, GTK-Gnutella, LimeWire, Mactella, Morpheus, Phex. Qtella, Shareata, SwapNut, XoLoX

Don't compromise your privacy or the performance of your high-speed connection. First they "alent" me to the dangers of

First they "alent" me to the dangers of these file sharing services and then, one sentence later, say they're an abuse of service. Wonderful, now by merely using KaZaA I

was violating their terms of service. How you
 ask? Running any kind of server on Optimum's network and, as I said, other cable nete
 works mest likely, is strictly prohibited. So
 running KaZaA is a violation of my terms of
 service, and should I continue doing it. I may
 be punished. A part of me wonders if the
 RIAA or MPAA are standing in the shadows.

There's a problem here. The terms of service basically give the cable company the right to declare anything a server! Next week ICQ might be forbidden, using DCC could be cutfaved, and forget about running telret, ssh, or fip on your computer. They claim servers pose a security (breat, yet I don't understand why they won't let me take my own thances. There are people in this world who use the Internet for more than just email and web browsing after all.

clear as day. Next, I opened port 80 on my asked him to connect again. This time, if not see anything. All right, they were filtering one day, just to see what would happen if I set my IP using a web browser. He did, but could via my 192.168 address. There was my site. them in /var/www/html, and went to my IP found myself playing around with Apache sites. By now it should be no surprise that both "Port:" and "Listen:" were set to 81 and port 80. I changed around httpd://onf-so-that layer two switch and asked a friend to head to up a site. I made up some hunt files, threw servers on their networks. Out of curiosity, I many cable companies oppose running web-Which brings me to my next point - web

This however, did not last long. Today it does not matter which port I use. All incoming hitp requests are filtered at the gareway. What does this mean? It means I can run a webserver on any port I like and then telnet to the server:port to see that it's there, but making any sort of http (or https) request leads to a connection timeout. Great, now none of my friends can see my site.

My solution was really quite simple, although far from practical. I merely installed VNC (Virtual Network Computing) on one of my local machines and gave the IP/port to my friends. This allows them to connect to my internal machine through VNC, open a browser, and see my site as though they were

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on my LAN. Of course, it's sad I have to take such measures. All I want to do is use the Internet the way it's meant to be used. Why must there be so many restrictions? You pay for your allotted handwidth and, as long as you don't uncap your modern, you should be allowed to do whatever you wish.

In certain there are people who disagree with what I've said. Many have told me the terms of service are what they are, and if I don't like it I should go elsewhere. I'm not really stire where I can go... DSL I suppose, hut

why should I have to go through the bassle? There are a number of other things I could rant about, but I think what I've said is sufficient. We mustn't let these types of things continue. If we do, one day we'll find ourselves paying for every download, or getting basted because we had the nerve to run sah, Unless we stand up against the ISPs, we may never have true, unfiltered Internet access.

Shouts to Dash Interrupt, Parathet, Lehand D. Peng, Spurky, and Jack Basier.

Software Security -

by minion

Cyber cafes are gopping up all over the world. The purpose of cyber cafe software is to restrict the user depending on purchases and security purposes. In normal cyber cafes there is usually one server running the server software responsible for managing and serving customers, and the rest run the client software which contacts the server for information like user/password info, item purchasing, time purchasing, etc. You would software working directly with the purchase of when working directly with the purchase of with ease.

The piece of software being covered here is Tinesoft EasyCafe, claiming to he "The best Internet Cafe Management Software in the World." Bold statement, eh? EasyCafe works like this. On the server is the EasyCafe connections, user details, socket info, accounts, prices, time distribution, balances, log files,

transactions, even food orders! The admin on the server can also get continuous screenshots of any client, send popup messages, and some other features.

Now on to the fun stuff, the client software. Careful when testing cafe software. It is extremely easy to lock yourself out of your own computer! There are three tiles which play a role in EasyCafe's security.

Client.exe - client application. Handles server requests, time, orders, billing info, etc.. Guardit.exe - munitors escape keys (red

very well), task manager, and other potentially dangerous things.

Base of a conferentian the fee Client over

Easy.cfg - configuration file for Client.exe
Client.exe doesn't have much fun stuff in
it hat Guardit.exe and fiasy.cfg sure do.
Guardit.exe keeps you from simply being
able to alt+f4 the main login screen. Well,
what happens when it can't be sturted? The
program freaks out and cluses itself and tells
you to contact the system admin.*

So how exactly do you get this to happen? It's simple, Just rename Guardicexe to any-

thing else and then kill the Guardit process. Killing the process could be a pain if you're trying to use Task Manager, considering that running Guardit closes Task Manager every time you open it, so let's just use end.exc.

C:> renowe 'C:\Program Files\TimaSoftEasy

Cafe Citent/Guardit.exe" Guardit.bak C:> tskill Gourdit

Wait a couple of seconds after you type this and you should be prompted with an "OK" box saying 'ERROR:: GUARDITEXE CANNOT BE STARTED..! PLEASE CONTACT YOUR SYSTEM ADMINISTRATOR." After hiting OK you will be returned to a computer free of the restrictions placed by the server and effent software.

It gets easier though. Guardit.exe is based on time intervals. If you bit cult-alt+del and Task Manager pops up, it takes a couple of seconds for Guardit to close it. Can you see the flaw yet? Guardit is also what is responsible for making sure the client isn't closed.

Quickly killing Client and then Guardit immediately after will also return you to an unrestricted computer.

C:> tskill Client

C:> Isbill Guardir

Believe it or not, there's more. The configuration file has come back to haunt FasyCafe. The configuration file is where the server's IP address is stored. Simply changing the server's IP to another that's pre-set up with unlimited time will obviously bypass what the suftware had intended. The file should look something like:

127.0.0.1 "x\Dx6\$\forall \text{20x}" \cdot \text{20x} \text{12x} \cdot \text{16}\C\text{17} \text{15x}\text{18x} \text{20x} \text{17x} \text{20x} \text{17x} \text{20x} \text{17x} \text{20x} \text{20

The first parameter, 127,0,0,1, is the server IP address. A quick change in the configuration and you're done.

by Charles

A manufacturer's coupon for 30 cents off Philadelphia Creari Cheese was found inside the lid of a prior purchase. The UPC code twas very short and there were repetitive numbers in the second ball of the code. Knowing I that the first portion is the manufacturer's IDS number and the second half being "23030," I twendered if the "3030" was the face value of the coupon repeated. (The original coupon the coupon repeated.)

Knowing the last digit (8) is the checksum. I peopled over to http://www.burcodesinc.com/generatur/barcode/ and typed in: 52100027575? (the question mark causes the CGI program that creates UPCs to determine the new checksum on its own).

 Now, popping over to the Kraft web site -I got some graphics and quickly pasted them all together with some text in Photoshop (just to prevent any potential problems if someone saw the coupon - a black and white UPC on

plain paper might get some attention!).

Now to put it to the test - could hacking this 30 cent coupon up to a 75 cent coupon he that easy? I went to a local store with a self-checkout and purchased one container of Philadelphia Cream Cheese (which was \$1.99 and had 30 cents off (store sale)). Now the test, Scan the coupon. The worst that could happen is that the UPC would be "not on file," right?

Bingo! 75 ceats off, plus 75 cents off (my store doubles manufacturer coupons!), plus 30 cents off (store sale). Total sale: 19 cents. Now I'm wondering about other coupons that use this short form of the UPC used with coupons.



Hacking the Look

by Rev. Karn - ZenLogic/Freebooter

article about something much closer to home. Have fun and read the caution below. hacks will work on most flavors of Windows. mainframe or some network someplace, but an Your everyday Windows box. These visual This is not an article about backing the

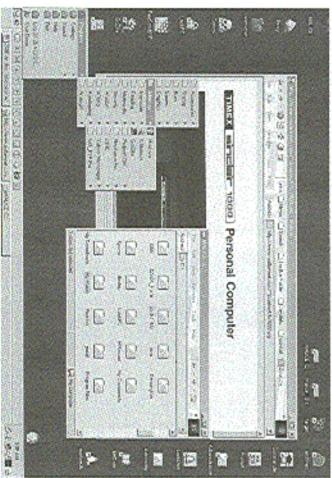
source Hacker 3.40 by Angus Johnson), a great case, and rename. Then empty out the old dilforeband. You will find that it is self explanatory. resources. (Google it.) Use the program a bit belittle file for backing system files and retrieving careful. Let me say this again: be careful. The cache. Make a new up-to-date ERD disk and be copy the dileache to another directory just in Make a copy of all the files that you rewhack, mess up your system. Remember to back up all program I used the most was Res-Hacker (Reimportant files, and that includes the registry. Caution: First off, doing these backs can

Background

ong time now. In fact, my first computer was a I have been obsessed with computers for a

my brand spanking new Sony laptop - 1.5 MHz a variety of CPUs from the low end of a 300 consist of mostly (eight) home brew computers have saved them all. laptop running Minux), and one Apple Pergan's stew of OS's from Windows 3.1 to Linux then various Commodores, an old Osborne, an many Pokemon jpegs are out there? Yes, they flow files. I have eight kids. Do you know how and an SMC 8 port hub connects it all together forma running OS 7. A.D.Jink DSL 4 port router mobile Pentium 4. The rest are mostly AMD 386's, 486's, and Pentions. Now my systems AT&T 6300, then over the years a bunch of One box is a file server for the storage of over-(Free BSD and Mandrake - I have one old 286 700 and 850 MHz systems. All running a Multi-MHz over-clocked Pentium 2 to the high end of Timex/Sinclair 1000. After that came the Tandy

my way into a university's modern from phone trumpet like program, then social engineering 9600 band modern, a packet driver, and an early My first back was setting the 6300 up with



and from Salama Advanced Work and injury of security A Company of the San Street, Street, St. Str. of Street, Street, St. of St. of Street, St. of St. of Street, St. of St ZenLoge APPROXIMENT Kar.

when it changed over from nep to tepfip, so I could use usenet. number and getting on the Arpanet back in 1983

NTTS partition, there you go. The kids can now side I emulate Mac OS 7 using Basilisk (for to Mac, convert the files, drop them onto the compatibility with the kids' school files... boot drake. Default is Win2k. Also on the Windows From there you can choose Win2k or Manputer. The one I drag along to the job site with work on the files at home.). extra income. Anyhow, malice hoots into blo. business networks in the surrounding towns for me. I am retired and administer several small named Alice, don't know why) is the work comme explain. The laptop, named in Alice (mobilehacks I had to do to make it truly my own. Let Alice, at least one of my computers are always This article is about my taptop and the OS

The Hack

facking away at things. (Yes, I know there are I wanted it to look like a Linux box, so I starting started looking at the system files in the OS and do something about it. Out came Res-Hacker, J. on my hands now that I'm retired!) so I tried to With a plain Jane machine... (way too much time there. Real embarrassing. I the great Zenlogic dows, it looked like all the other computers out when I'd pull out the laptop and boot to Winlooking for the start button and other resources. As you know, Win2k looks horrible, so

> regard.) KDE for Windows really works right in that programs all the time and neither Black Box or dows the same because I install and uninstall would be that hard. How wrong I was and, yes, win. However I wanted to keep that part of Win programs out there to do this but I didn't think it I have tried Black Box and KDE, on top of Cyg-

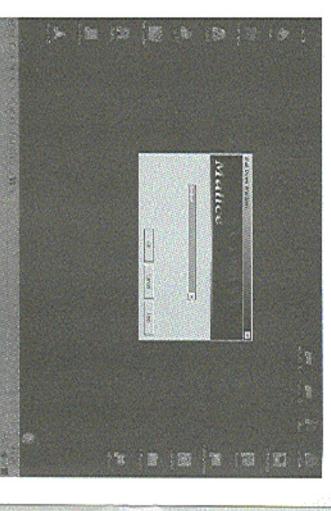
and their answer to dll bell. I knew that there crosoff's way of protecting us from ourselves was a registry back to disable it. tection (an almost impossible thing to do). Mi-First, we need to turn off Windows file pro-

 $(HKEY_LOCAL_MACHINENSOFTWORE)$ Microsoft Windows NT/Cornent Version's

Value: NFC/Disable Magagaya)

Value: 0 = enabled (default), ffff99d = disabledType: REG_DWORD (DWORD Value)

on Win2k and to and behold it worked. Here are the main points. in Windows XP" dated March 4, 2002. I tried it site: "How to Disable the System File Checker went back to the newsgroups. I found an obworks on Win2k pre SP3. Now, what do I do? I crosoft public windows spageneral " newsgroup scure article on the overclockerschib.com web-However I quickly found out that this only Thank you wheever you are at the "mi



Windows XP No Service Pack

Backup sfc_os.dff (sfc.dff in Windows 2000) in the \windows\system32 (wirantsystem32 in Windows 2000) discetory. Make another copy of sfc_os.dff (or sfc.dff), call it sfc_ost.dff (or sfc.dff), call it sfc_ost.dff (or sfc.dff). You should see the values "8B" and "CG".

Windows XP Service Pack I

At offset 0000E3BB (0E3BBh) you should find the values "NB" and "C6".

Don't do anything if you can't find these values. (When I looked in the sfe.dll file in Win2k the 8B C6 values were there.)

Change '8B C6' to read '90 90' and save.

Now on my computer I just rebeated into

Linux and copied files, which solved the preh
tern of replacing files in use, but the article on

overclockers.com said this:

Yun these commands to update the system files: Copy civeindowskystem32xfc_os1.dll civ windowskystem32xfc_O3.dll/y

Copy c'sséndovskystem3Zvje_osl.dll c\
kindovskystem3Zvjllcachehyfe_OS.dll bj"

I take this to mean boot with a boot disk or F8 to a command prompt and run the commands from there. OK, if all goes well, we just have a couple of things left. If you are asked for a CD ignore it. Remember to reboot and fix the registry like 1 did with the SFCDisable Reg

back. You must do both in Win2k to turn off tile pretection. Reboot, you're good to go. Check if it worked by going into the event viewer and looking for an entry like this.

Date: USET: Computer: 3000 Event ID: Event Category: Event Source: Event Type: Description: None. Windows File Protection in MALICE 3748/14/AW 4016/2003 54032 Windows File Protection ρέρουστου

opened it up with Res-Hacker and there it was String Table -37 -1033. On the right, you should the string table for it? Yep, explorer.exe. So one already there. Save, reboot, and admire aren't where you would think they would be the Start button. But where did Microsoft keep on the not, search for book logos, or modify the look for bitmap #1. Replace the bitmap with bitmap, use Res-Hacker to open Nioskral.exc. things. Remember, this is Windows, so things your new book logo. Next I wanted to change file that is 640x480 with 16 colors. Or find one one of your own choosing. It must be a bitmap Let's start with the boot screen background OK, now we can really start changing not active on this system.

> worked! Now we are getting someplace. New it to Res-Hacker, Saved, then rebooted, Cool, it after I hacked everything. I just couldn't save it. boot logo and a Start button that has lost all ager to close Explorer and then alt-tabled out of save because it was in use. So I used Task Manors. Save and rebest. But a problem cropped up dba with the kids, and then it hit me. Dah, ean't toust be a bitmap file 25x20 by 16 million colcan use a pre-made image or make your ewn. It Script button again. Now there is the little probright you should see "Start". Change this to the ton. Go to String Table -38 -1033. Again, on the anything you want, as long as you don't go over Heft it in frustration for awhile, watched some plorerexe and look for bitmap -143 -1033. You That can be changed too, Ros-Hack back to exlem of the Microsoft icon on the Start button same as the previous one. Hit the Compile five characters. Now hit the Compile Script butsee the word "Start". You can change this to

do I change that? I could change the color of the graphics or such. I was stumped! How the hell size needed and replaced the old hitmaps. Saved width and height of 413x72 and 16 bit bitmap. I start screen with a Reg hack. Black of course. logon appliet. Still the Microsoft blue and no malice looked good. Except for one thing, the them, saved and rebooted: Good to go. Now bitmaps and such, changed colors and replaced crosoft blue, back to Res-Hack. Saved out the and rebeated. Cool, but things were still Miconverted the bitmaps I had picked out to the size hitmaps they needed to be. They had to be a were. I pulled these resources to find out what mygina.dll. So I opened it up and there they ago and the log file from the event mentioned membered I had a peoblem beeting not too long looked and oculdn't find anything. Then I redel". Where were these resources? I tooked and while logging in, also when hitting "ctrl-altappearing on the "starting" and "login" box Next was the Microsoft bitmaps and logos

(HKEY_USERS\DEFAULT\ControlPanel\
Colors\Wkarkground change to FFFFFF)

But the logon stayed the same, Well bell. Took a few days to think about it, meanwhile searching on Google. Not much help, but ran storess a freeware program called "Crash Coarse Logon Interface" at www.crash.coarse.off. Ware.com. Turned out to be just the thing I tookkel. Check it out. That taken care of, these

were all kinds of icons and bitmaps in the various dll and exectiles in Windows and to change them all would take forever. So here is where I cheated again and used a program. One day on Google I ran across a Japanese software site. I found what looked like a program for changing the icons in Windows. I downloaded it, and sure enough it was. Here is info on this very nice program:

Masami Rawa Madonote verb.01 for Windows Filename WHAND601.EXE http://www.asahi-net.or/jp/~vr4m-iba/Globa/J download.html

A nice program for sure. It made my quest a lot easier. Try it. I changed almost all the icons in my system. The ones Madenote didn't do I Res-Hackod. Now we have a pretty visually different desktop. There are other things I didn't like about Windows. The plain mean bars, etc. Using Res-Hacker I opened explorerexe and other such files and dill's, did some changing here and there, had all kinds of fun, messed up a few times, put it all back, and stanted over. 'So it goes.' Now I have Win2k looking just right for not. A friend dropped by one day, saw the desktop, and thought I was in Linux with a new theme, It was great.

traces of Microsoft, Good to go.

throated easy now writing this, but at the time it really sucked. I even screwed the registry up a few times and lost Windows. Thank God for backups. All in all, it took me several days of work, thinking, and searching the newsgroup archives to redo the look of malior. Finally, after much frustration and a few episodes of dize (from fat butto kid bu), in the end it all worked, and malice looks great. That is why I decided to write this, to put this information in one place. Now when the rubes look at my box top, they are always asking what OS I use and the women, well, that's another story. Now if I can just make the lilo boot-splash look different...

Thanks to all the people who have posted regities to the newsgroups in the past (newsgroups are a great resource for any kind of information). I tried to find the old posts, quote them, and give credit. However, most are gone now or I could not remember where they were or find them again. Sivry if I missed semebody. You know who you are, Thanks.

By the way, howely Joe (Joeschmon).

on (able/DSL Routers

by osiris188

Updates81@hotmail.com

In 19:3 Khoder Bin Hakkin wrote a great article on setting up free web servers. In 20:1 Toby complemented this article. Like them I also decided to set up my own fip server. I did it all completely free and with no bassle, My FTP server was set up on Winslows 2000 Professional. I'm also going to give a possible solution to the dynamic DNS problem.

My Hardware: U.S. Rebotics, broadbard mater and an Alcatel speed touch home DSL modern.

I built a computer form all free parts that I managed to pick up along the way. It's an AMD Aithon 333 mits with 192 MB run. 107/00 NIC and a 7.5 gig JID. Nothing special as you can seed But let me tell you I ran Win 2000 server un this thing no problem.

FTP Signame Used: You can download any fip program. http://www.webattack.com/freeware/server//wlipserver.shtml has some good ones. I used guildfipd from http://www.guildfipd.com/. It's very easy to use and configure. It also has great IRC tools on it and of course, R3/free/

Solving the Dynamic DNS Problem

http://www.myserver.org. There, I said it! You sign up free of course then download the myserver.org SW and run it. Simple as that. Because your IP on cable/DSL is often dynamic, myserver constantly updates your IP to translate to the web address you choose. You can set the speed at which you want myserver.org to cheek for your new static IP. Keep in mind this is all for Windows. You can configure myserver.org to be a web host.

and for flp. VNC, pc anywhere, mail, telnet and IRC. You can also add the MX record. Myserver.org also gives you the option to open alternate ports in case of ISP port

Router Configuration

Depending on your ISP your FTP port 21 may be blocked. My port 21 is not blocked. I'm using a U.S robotics 4 port broadband router. They go for about \$99 Caradian. All you need is two tabs in the notter configuration utility "virtual dmx bost" and "virtual server." We'll start with virtual dmx bost. You'll see something like "IP address of Virtual DMZ bost" then the internal IP address of the box you're on and you check off 'enable."

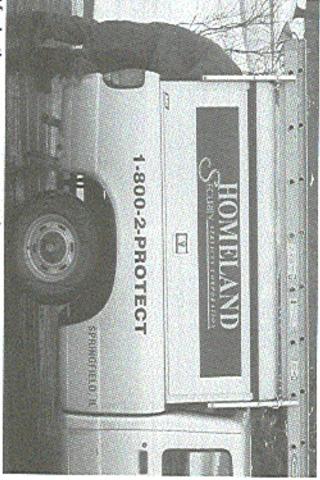
Next step you go into the "virtual server" tab. This is where you set the router to redirect traffic through your desired port to the flp server. It looks something like this:

192.158.125 xxx 21	Private IP Private Part
$\Phi_{11} d \epsilon_{1}$	 W. (4)
B	 d IP how Bush Born

All you have to do is save your settings and logout. Keep in mind NAT is enabled by deliault on this type of router. After this you're all set to go! Setting up an ftp server was deliaitely worthwhile. All my SW and troublesheeting does are always available.

Sharts tv: My parents, markay26, bergo jazan, karim, Scottie D, and bookman.

Write For 2600.



Maybe these guys can sue a certain government agency since they bad the name first. We'd probably all be better off if they took over the department anyway.

Photo by lentil

Yes, we've gone and done it! In response to all sorts of requests and demands we now have official 2600 hooded sweatshirts! Instant respect on the streets may be yours once you start proudly showing off these classy garments with the 2600 label on the front and the "official" seal on the back.

THE TRUE OF THE STORE OF THE ST

All sweatshirts are black with white lettering, available in sizes L, XL, XXL.

Order through our online store at store 2600.com or send \$35 (\$45 outside of North America) to 2600, PO Box 752 Middle Island, NY 11953.

Love the design but hate sweatshirts? Or maybe it's just too damn warm for such a heavy piece of clothing? No problem! The exact same design and layout is also available on brand new t-shirts for \$18 (\$23 outside of North America).

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2600 Magazine

Summer 2003

Page 29



Sensitive Info

Dear 2600:

P2Phererorks, etc. nity under a general definition? Such as DoS attacks, print that could be considered in the "backing" commu-Do you have anything that you absolutely won't

Murtyfive

of the magazine will be subtremed. will use certain bits of information, the whole purpose cles. If we start down the road of novering how people The file of explain how a system works or has that equaimitely will share default preservents and algorithms. lot that can be learned from that. However, we most defi muchines and/or networks because (here's not a whole word i privat are things like passionals or codes to quesific will get people ininking in a constructive way. What we We noted to focus on medicalolings which imprefully

Deur 2600;

Can you help? ning unless they're some sort of foreign ass wipe site. pages 45-45 of 19:41 Don't wally want to do much wan-What are all of these IP addresses and names on

you do if they were "some sort of foreign are some site?" We've said not much as it is, But what exceedy would

Handy Tips

on a Windows XP system? Time to format the hard the command line. Next, but? Hope this saves some Rigger or LightCrack if you can't do your thing from them with your favorite password enoker, like Jack the you have to do is grab the password hashes and crack Command prempt will come up. From either of these all time 15-30 minutes, and instead of the screensaver the and wait tertil the logen screensover comes on, some-C:WINDOWS/SYSTEM92/CMD.EXE to LOXKIN.SCR the box. If you don't have a Win 2K disk, try changing 2K's recovery console, meaning you have full access to Strangely. Win XP security settings don't affect Win CD, boot from that, and onler the necessary occasule drive, right? Nopers, just pull our your old Win 2000 What do you do if you "lose" your admin password

Jason Argonaut

Denr 2600:

pick out these calls now. Every time I hear this progrant lowed by a telemarketer greeting you. It's just so easy to swer the phone only to hear a few seconds of silence foltelemarketers - namely what is going on when you an-Think you for the information provided about the

> it's a releasantener. I just keep quiet until he hangs up. It's a busy call center in the background). When I determine brilliant! Thanks so much. easy to tell when it's a telemarketer (all the sounds from passe. I just stay on the line and keep quiet. It's pictly

tavdog

cookee's senior show. Most copies will be distributed to visitors through the booklet will be distributed for free on and off examples its effects, and proposed solutions being offered. The booklet to inform the general public about the DMCA thesis project I'm creating an informational anti-DMCA lege of Art and Design in Los Angeles. For my senior I'm currently a senior in graphic design at Ous Col

I will credit the surpor and 2599. the article fieled "DMCA vs. DMCRA" from 2600, 19:4. I'd like to request permission to use in part or whole

rigide of these guidelines

yen. He only hope our readers and fature writers see the October of Builds as acid, an extract dury paper on work already seen is difficult to group. State you afreach

here, writers can do whatever they want with them, are

Gloria

genter time send us a copy of whatever it is they're patting to We also ask that people using material from the mago-By definit, we consider this to be acceptable use.

Dear 2600;

sent gets printed or is thrown away like so much trash during the exempiatingly long wait to see if an article policy doesn't exactly encourage such a thing, at least other, the exchange of infe is and should be free. Such a policies. As is often said to the mag, in some form or anor simply want to be bound by such control freak type mag from Barnes and Nable and other stores) that peomonths (actually, over three months for those buying the Cake. It's unrestiette to thisis in the span of about three they haven't drank Pepsi a day of two before distilling agy here: it would be much like Cora Cola telling all 2000 that they'd really like to submit elsewhere as well. ple will always remember they submitted an article to Coke drinkers that they can only drink their product if submitted anywhere else first. Let me give a little trailthat all articles submitted to the mag must not have been the article solutioniesion policy is unfair. The part saying magazine's article policy. Personally I think one part of I we been meaning to membon my thoughts about the

writers it is. And, let's not forget something else here ple's hard work. Therefore, doesn't it stand to reason that sembes you to making money. Money off of other peo-Every time a copy of the stug is sold or sentenne subnot change. That's unfortunate. At least for us article what I or anyone class says, that policy will, of course, with that being the case that it's only fitting and right One thing I think is premy much certain. No matter

swetting thes. Well. I have used it to swat mosquitos cense agreement? Should I hire a lawyer? Am I going to successfully. Does this constitute a violation of your li-Dear 2600: In your 20th issue you claim that 2600 is a root for

And notice the owner they call troublewadepte

Z

like everyone else. I am juse blazarity trying to jump the more direct means? I have no problem submitting them someone that I could send future articles to through a Dear 2600: Now that I have had an article published, is there

No Name

Of that question On many and latest or half to east Authority and judged on its own ments, not the name(s) attached to its Pin tine jumping here, many Every automission in

Dealing With Opposition

Dear 2600:

connessance: [output of whois lookup deleted]. rough neighbors. Here are the results of some basic regiant airbase in Quar so we would protect him from his scally, it is owned by the same rich fascat who built us a acted as the propaganda cult for Osama, Saddson, and any other Arab with an apit-American story to self, from Al Jazeera is the cable network in Quaer that has

Kenn Sumde

We distribute private this data only because it would have anonymous

taken up way kui mach space and it's pery easily ob-

that you listen a bit if such people voice such opinions tained by simply looking up the aware of the domain.

Your analogy is a stronge one to say the least, But

Captain B

you're willing to engage in!! As you probably know if ing things. span, harassness, dessal of service, or whatever else from your way of dealing with those you discusse with новод зденее бълг ндо фукулег нуд съг низ в чес tidinals. But we would meter conduct at attack that mes with extines who abuse power and intimidate indi you've read our pages before, we have some major istempting to silence different perspectives (through lague to deck up your argument water than mend) atseoffy sticks. How about providing some intelligent dia-Even if your facts were accurate - which they are far

Desir 2600.

ens are the people we man abtendarly answer to and that found in wher publications or on the Internet. The readreaders to stoply reprint information which the be on a certain level of standards. It's a disservice to our self-defeating. But our writers are helping to determine For each - our magazine. To do so would be insone and Же рассе адгователу на пестопом ок изво печ сомиште ting it to the guidelines we ask our writers to abide by gif absurd restriction placed on consumers and computeit's flawed for the simple reason that you're conjunting up

the restant of the magazine and for that we have to inside

Seem to have consisted yourself that we've explicitly we ack you not give as maderial that readers may have title mass other magazines. Why this such a big deal than shows up observation. And after their activities are policied tively few exceptions, the articles we print here have not is to by we make this matter simple stipulation. With miato ensure it isn't sibeneed." is to have my value, we have to do everything possible cencepts and ideas expressed. Especially the impercially for poignant editorials such as "Not in Our Name" may not agree with it, but if what we allege to stand for tance of the fact that "We may not like the message, we from the Spring 2003 issue. I feel such an affinity to the I am so gled that you publish your magazine. Espe-

anonymously post comments. profit mealer group that has a public web site where any the above stance. For example, I volumeer for a nonone can anonymously pest news and anyone can I am an idealist but I see some dangerous boles in

arti-gay continents, etc. that many posters felt physivestigation by the police as well as investigation and Other concerns such as being dragged into a criminal in cally in danger and didn't what to use the site anymore. photographs, violent threads, anni-Semitic comments, size. This open board got so full of altered and reposted of all sorts towards women and men who post to the monitoring by the government food my eightmades Recently we had a lot of hereful specish and threses

provided to return the open posting ASAR. posting on the website. We all regrested doing this and thought this was wrong and removed the open board The group decided to post a letter about why we

planted by tent or not? Are there any limits? Is true equality exnot silence any message whether we agree with the conflow can these practical concerns be addressed and

Your thoughts would be really helpful

пол об извателет солимнику даз двет дийг. fraund positing unhance. You're simply not playing book to that ensures is complete chars and the eventual destructhey want in easy forum without easy sort of control. All only way to six fair is so allow energons to say whatever rhem on your sin. We find that sometimes people feel the opinions you find offender or destructive by permitting You are not sileraing expens by marring the open

choose not to print? Not at all - they still have their freeдепуілів Ганавна оў хрынск во звиче може налава не of 2000 would soon be lost in a list of gibberish. Are no others to destroy what you're trying to do. For instance, in our society. But that doesn't mean you have to allow ў не рипкед счетукіку грсі жаз зентло не, те жеззаде It's assected to not restrict expension and opinions

be of convent to empone regardless of whether or not they agreed with the speech itself. reputat be a chose attridigenera of their rights which would potentialest of if they were otherwise sifenced, that dom of speech. If their words were made illegal by the

how munt to put out and make it so much caster for him-All that open board proting sines is dilute what it is

that's another story. freedom has been pretty much beught and sold. But only. The may things have gone in our sectory landy, that have the obligation to give others arress. At least in the airmanes that are most definitely findse, those you mould undicites. Non if you were a broadcaster using public nite resource. Others can can their own begins and like forces to shut you down. What you offer is not a fi-

Defining Terms

circumvering limitations, Just dog't think you're being dectrinated media affiliate when you read the next few reprint added by some out-of-leach corporate shift or itswho enjoys the intellectual challenge of evenyoning or d) consider myself a "backer" in the abstract sense; one consider myself a "backer" in the contemporary sense, I I'm more like you than artike you, While I would never posed to what you do as an organization, and if suytiming I would like to shot off by storing that I am not op-

is a major asyes t of backing. vac) of others. At least, first the trader's perspective, if hacking most certainly does involve vicioting the prito a specific type of network to hack, that the nature of admired to breaking the law, as well as directing people famous hackers to date. (1) the fact that he has openly respectable position in the social hierarchy of backers. lege." One would gather that by A) The Memor's ing career is on a computer system belonging to a colto say that "One of the safest places to start your backnoid. Remember, you are breaking the law," Here, The B) the fact that he is widely considered out of the most Memor openly admits to breaking the law and goes on rity. One such outline was "Don't be abaid to be purein its first chapter that backing primarily expectins itself One of his tilks, cutified as it was received by me on some very old text files (some from the paid 1980s) some specific ground rules for breaching network saceinformation. The part entitled "The Basics" outlines ends gaining mainly intenthereized access to systems and "the_usester's_guide_to_backing.est," seemed to imply whiten by very fairness brokers such as The Menton the backer offic as a whole. I managed to get my hands While taking an interest in the backer enture and

quoted to say that "First off, it's not okay to violate which I believe is at the mot of hacker misundersoundjunction with the above quotes, generates confusion tenets of the backer world." Reading this quote, in con-Doing this is not, contrary to popular belief, one of the someone's privacy, no maner what you call yourself by anonymous, where the 2600 staff member was first letter in the caregory. The Backer Ethic," written While reading 19th, I saw 2500's response to the

> General Systems. stating that backet office does not involve unauthorized don't know what they entail as far as their ethic goes, or be derived from the show is that either backers really ing in the eyes of the media and mass culture. What can whomever wrote the response to the letter was lying in The Meator iso't really a hacker. In the last case,

work-based breach of personal computer security. defrauding a bank account, but adhering more to a net illegal activity perturning to technology - not necessarily that it often bluss the boys between 'right' and 'wrong, backer I know is or has been involved in some form or it's okay because the just 'keeming'. Almost every boxs, but at least I don't hide behind the safety-will that myself am goilty of snooping around when I shouldn't uneathorized means? I have a hard (include) edicying that, I Can a hacker be a hacker without breaching scennily by often justifying invasion of privacy as "exploration, Another issue I see with the hasker community is

finition of the term "hacker"? by unauthorized means? Hell: what is your personal de-"black hot" hackers? Am I'u bucker if I breach security ferent elassifications of backers, like "white har" and tion from the media or government? What shoot the difthat - pretense - and it's all just a facade to avoid detact ing" an accountry? Are there really brockers that have not ification, is your supposed pretense of "legitimate backgained unauthorized access to semething? Or is it just In short, it, as well as the rest of the world, need clar-

your time and consideration. I am most curious to understand. I thank you for

system ediministrator, great nament appeal, wherefore, sion are one and the same. Ether way, like we teld, pitнису иноскупи са под общу - надобил уследе и держего And other times unauthorized acress and privacy treaunouthorized access to figure it and and self the world sonal data on it. It frequently takes assures worth an insecure system is put online with all kinds of perprivacy Operations a true privacy invasion occurs when and error questioning, sharing of information, and pure as figuring our hard to unbiene can objective demogh union to do in order to be a hacker is singaly and true. Hacking thereof it alread if, but to say that it's semesting you need unauthorized decess is too necessarily un invesion of stableoroness. And let's be clear on semesting else essential part of the harber world. We feart from it, we we maintain to that such ununihorized access is not an which involved unauthorized arcsess to a machine. When med not dealing with one specific erea of backing We don't six an inconsistency here. The piece you (yrregray

shouldn't cette as a surprise when you are associated cate hacking websites as a "form of expression," is with those who do this sort of thing regularly. How is pages, publish afficies on how to exploit US, and advoother words, when you hast mirrous of backed weblike a dack, feels like a dack, it's probably a dack, to news page. It seems to me if it talks like a duck, sounds crated with those who rook down aljacecra not on their It's firmy to see 2600 complaining about being asso-

> not backers, why do you call it "backing" walquiges? sign aren't really backers, or you're lying. But if they're his not blanast hypocrisy? Either these people who hack

Commerce Security." tiliable progose. Pointing out a security hole is much pissioning in very close detail how to explicit it for no justo... grab their password. This is not just pointing out a exploit unaccustomed users' ignorance in as altempt ing penders how to circumvent lose free is nothing short eles 300 publish. Articles that come to mind are "Outmore like your article extitled. The Carrent State of Esecurity hole, it's pointing out a security hole and exgodinear broke down is inexcusable and irresponsible, by of steeling. Thirty weding this as a way to get out of a "A Password Crabbing Attempt" one is clearly trying to situation similar to agricing 15 minutes late because "protecting privacy" and "preserving security" Teach-Artempt," d.c. What possible relevance thes this have to Another example centers around some of the arti-Blockbuster, 'A Password Grabbing

Short was referring and yet housting at the same have. formative, and Conteases Operation EPS calking points me. The article above setting up a home server was intaining and a lot of your social commentary rings size to (log) find all your articles immoral and unjustifiable The "History of 30357 SP34K" was thoroughly enter I suppose this would be a good time to explain that I

speech is almost as inanc as the government executegcade. Deginatically excusing your explorations as free yary sequent assure they retailed care of, or deep the faprivacy, pointing out security holes, and taking newsarea. Either five up to your supposed effic of personing ing fellow citizens to look over each other's shoulder for STANDS STOUGHTS The bottom line is you early keep riding the gray

CALM MAXX

the such letters in the space of a month. Fig the obviously budseard past a lot for you to write

come to be. With correspondy available explains, 2's pas payer should be considered hackers. He think it dehasken den't self figuring out vogs eround security. rectly involved. But that doesn't mean that crepility stible for a site to get harked without a backer being dipianely that's how a list of so called hacked eveb pages ing anything that requires hooker ingensity. Unfortumanning a script written by somewhere whereign't results give pends on the motive and the extention. Sometime simply adminus whether or are those who sumply define web and free speech that so more of no value. It's a bit less and are, on fact, in shore eagpenshion to the open services suits) with with the call for an Shepper and Army suits for take фіўкані (маўсях ули іс та тайклегам жедіа) зо жег дзег specifie from the world. It make shouldn't be lending their colling presence and ending off their perindical had the fir all likelihood betractoral) given of sicommented to may a systematic distinct of sensite attacks as an albord web page that could be fixed with a single режи го аўстусена на наг пол темеріна, го інпосыом Let's man by gening our jack straight. What hopğ

you may see the intent of publishing a particular was no also but be associat that there are many who are White from way not acceptate the value of some of our are

> neil as passible? is a retail paint of any sort of hacking and what better may to do shis than to see specific examples with as much de rent similar occurrences. And fearning the nathodology neder for summand to take decion to either fit if or preweakness. Seeing that end read to given meassage in end result is an important part of disclosing a secunity who eliches to exploit it, it's not that simple. Showing the nty weakness as only serving the purpose of someous

to get them to be taken seriously. is on effective approach. We will combine to expose se rinem. History has proven that this it offen the only was carry hades by discussing them and demonstrating He simply do not believe recents through observity

Dear 2600:

it permits users to fully try a product before purchasing it they should. However, I happen to support pirary since purchase that which they pirate. I happen to think that This forces software companies to make a better prod software for a company, I can make a good decision competition, so that when I aut in a position to purchase of their produces. Software pitticy also less me view the programs than I previously owned. This is one of the have bought many more movies. CDs, and computer not too many computer programs. When I pirate sense: doing this. I owned two CDs, about three merces, and cet, which I view as a good thing. While not all pirates some people, such as mysolf, it increases our purchase reports I dislike the companies that go after piracy. For maney before I purchase it. Since I began pirating, I view it as an opportunity to see if a product is worth my pirated softwore, music, and movies. Before I started could not pirate at, I punchase. Since I got DSL, I bave use. Any program which I feel that I would buy if I one. Like him, Liend to buy programs which I actually thing. I don't view it as getting the program for free. I Like I1269U in 1934 I too am an avid software pi-

Service. dersion as providers. But the content will countain to this carry more emogrance on their part and continued needs to adopt to the times and abange its utilitude to marker to no to all of mese questions. The industry (sylheder, etusia, mortes) zadi) iz pent? Ne betene de draconion toctics не че всес witnessing? Is the industry there people agains the memorphisms. Do they justify the people iouropsed in just gesting stuff for free. But do energeine decouple the way you alid. There are a lat of allenation of their customer have will ensure their exwords everament. They don't mally have a choice on We'll all be stidding ourselves it we believed that

The Law

Dear 2600:

static IP, and the IP address in the takedown notice was to our ISP. Our ISP sent if on to us. Thing is, we've get a DMCA and takedown notice. This was from the MPAA My recommends and I recently were served with a

that any intringement topponed at all. This was all als. Her no measures were taken to prove that assump that the files themselves contained copywritten meteribased on an assumption that the titles of the files means thing. So the MPAA had no proof or reason to believe question. In other words, they could have been anylists of people who are in a fan club of the media in mentary about the media in question or could have been mede a good point; the files could have been a doortities in the results served the notice. The person serving downloaded the files in question. The MPAA's cronics got search results back from a P3Papp, and based on the was the real subject of the potice. Apparently nabody I traceroared the IP and contacted the person who

any infringement is going on. In short, they're courring ecre broken MPAA has do evidence and dan't prove that any laws that they were breaking the law, they would win. The on our fear. If this person were to challenge the claim can't prove, or at least deail bother to investigate, that over the healthing times. If just seems as if the MPAA is notice and takedown protocol, because we've all gone ing notice and takedown to animidate people when they gambling on the ignorance of normal P2P users. If sites Now I'll just skip over the dae process useass in this

than you do what your chances are. apportunity to fight back. A lawyer would know better bons may be on thin ice and you may be able to take the guess the best thing I can say is that if you get served above as a case where the DMCA is being abused. I with a notice and takedown, call a lawyer. The access-I may be preaching to the choir when I present the

time in recent memory (yes, W., I'm talking about you). what our country is than people give you credit for Keep up the good work, you're doing more to protect Strong like we have more of those now than any other civil rights from demestic enemies a part of our lives. something to common: We've both made defending was in the Marines and I felt from the onset that we had Anyway, I started reading your magazine when I

(by) are so technical (like the DMCA)? the masses as to the implications of these laws when to stay on top of it. And how are we supposed to educate tween PATRIOT, DMCA, CBDTPA, super-DMCA, and seems like an endless shit storm and it seems impossible ing to do away with our constitutional freedoms. It just all the other local and state laws that are constantly my-How are we supposed to fight all this legal coup that's been going on? It almost source impossible. Be-

as his can. Some of our favorite sources of lightwarten Josephia social of thing so we seem so were four rook as much people who are interested. The Internet Isade itself to pleady of places to go for information and a whole for of share. There is an authorizative source. But there are whelin us. There is no one place to go for all the onforce and it's also the ractic of those who wish to over-It's not supposed to be easy. That's the challenge we

> CONTRACTOR AND SERVICE STREET, These will feed you to retains. And we'll prout more good include: anti-discount, effort, epicors, and actions.

site for domination - Rupen Mandoch, for example, ing to corporate greed and those with a sociopathic depublic and doue a huge disservice to us all by knowner-Lask other readers to join me in contacting our "rep-The FCC has ignored the overwhelming will of the

remeraties of D.C. that the public increase is meant to purweigh corporate interests as they do their duties as of June 2nd, and asking them to make it eless to the beresentatives" in support of \$1046 (or whatever it develops into as time passes) to reverse the FCC rule change

media, and all the other corporate interests in charge. times to take it from the likes of the RIAA, MPAA, big readly and negatively affect us somebody will fisher Maybe if we start speaking out on the things that dimessages to all your representatives simultaneously http://wausenet.commoocaase.org/ to look up and send They certainly will not if we coll ower, shot up, and con-One good way to make contact is to use the website

Percent.

come impossible to sustain. of ignoring and dirmitating the appearant will some beand having a large number of compositions, their techic you tase plitabing that your role e is having no effect. By productive business of magnificate breather productive instabilistic regults - the system is designed to fourteste indiriidhal letters, phase calls, or visits. (km) espect ing in this part of thing. One mass-produced ietter duplirealed enablest times will have for less of an effect than It's expectably important to be creative when engag

themselves in this type of situation in the not-too-distant http://www.chewplostic.com/ RIAA? They have donation pages set up here: future. You might wander when they're going to come port5.com/. A loc of people on P2P networks might see Want to help the students who got sued by the and http://danielpeng

Kobo

Letter Responses

gram I've tried has failed to get the password. my school computers because every two receivery prono way around this near peoperns unless you have a pronot put the floppy to be checked when the intectains grow to got the bies password, which is impossible on starts up, making Deep Freeze "uphackable." There is get anto it and book from disk, considering that they did lere if there was a password on the bost you could not would like to point our that not only does Deep Freeze "freeze" the hard drive, it also freezes the bios. There In response to the letter about Deep Freeze in 19:3, I

finally is widespread. the work won't be... interesting. I wonder if Deep Freeze somewhere not a server that doesn't have a frozen drive joing as they save their work to a thawed drive or ordine install anytime that they want to work on something. As they'll now he able to just reboot and start with a clean phone going over the time limit. With Deep France, that they could run the Macromedia trial products and computer, while leaving you the ability to save to clean up the registry and l'and drives or the "frezen" really great product that has many uses. Its ability to 新聞 ood up messing with Microsoft's Palladium when it id I still be there but the product that they used to crease similar type downloads ail the time without worrying goed to rebook their entire OS every couple of months so spoken with in olast cooms and similar places online than These to say I downloaded the trial and it looks like a thased" drive is amazing. I know a few people that I've Integral to several of the fetters about theep fineers.

Lookat That Har

to be the system that B&N uses. The other way of doing special issues and such. The contene POS "fix" for this priord so that the coshier scans the magazine, then enfor the magazine in the system but have it be open software used by most bookstones) is to have the UPC things (rarely used due to lack of support in the POS just petses the key then enters the price. This happens with a manual price cutry. In this method, the cashier thing) is to just have a magazine key on the keyboard is one of two things. The first (and the most commen is because quite often magazines vary in price due to into the system using an actual price. The reason for this store/magazine industry, magazines are rarely entered the magazine not searning correctly. In the book This info is in relacion to scott's letter in 20:1 about

actually identify the magazine and which makes up half of the EPC, does not change. to the new price. The "biped" number which is used to magazine is required to charge its LPC to correspond When the prime alwayses, as we recently found out, a

Dear 2600/

more into sture. Owek out http://www.geogle.com/bot.html for being served, but no mantion of this is made in the literlatter so that students can still find the solution when it is not to cache it. Presumably, the prof could just use the index the page at all, the NOARCHIVE value tells buts NOARCHIVE. The NOINDEX value tells hots not to META NAME - ROBOTS' CONTENT - NOINDEX. foreing. In HTML head, he should add the incertage as HTML (ruber than PDF) so that he can use the folfor this. The instancear should publish his answer shock aids of Google, planning ahead, have made provisions eached page be removed from Georgle's index. The wix-Last spring. Eigenvalue asked how to request a

blanch

keting purposes over the network (dirt bugs). Enjoy! ter, plus change the network settings. Thethere that they you can do all the things that Osicis mentioned in the letwas also successful. After you gain access to the system the past week I've tried this at Teger and WalMart and it try this number as the password. Bugo! It worked. Over merchandese in rey car and walked back into the some to (which was four numbers) printed on the rop. I put the cooked to the checkours and made a purchase. While hard and didn't have the time to guess that day. So I peoprompted for a password. I tried the usual easy passadministration. When I double topped this sees right corners on this module's screen but it didn't week frest K-Mart I tried to touch the top left and fettom dak Picture Maker Kinsk at Say-On (2011). While at my inhulate what customers do with this reaction for man double checking the receipt, I noticed the store number words, but no lock. I decided that it had to be something I did see an icon that woodd allow me to perform system This is in response to Osiris' letter on hacking a Ko

p3rl_junki3

Dear 2000

don't necessarily-mirror-our-editorial-stance octional for 2000 to run an ad for ray zine Agelration not dissimilar. which is valid, but I'd like to suggest that our othics tre to go? The editorial reply went the marketplace adsself as "the zine about going places you're not supposed since 2600 stands for goodhess and Inflication bills it-Anon O. Mouse's letter in 20:1 implies that it's hyp-

others. The "not supposed to" tagime doesn't refer to a supports the idea that the appropriate people should be derstand them, and then we shore what we find out with in their landscapes, develop deeper boats with their endoors in order to see things someone else has decided both willing to circumsent electricles and take back we're both motivated by healthy curiosity and we're explorers are morally inferior to computer lockers notified if one finds something smiss. I don't think turban struction, theft, vandalises, and invasion of privacy, and cates a firm exploratory code of ethics, condemning the the disapproval of the proverhial rust. The zine advoviolation of some objective uneversal moretry, but to about in hidden spaces in order to get to know and unthe looker office to the real world; we find and poke commercial consumption. Infibration is about applying vironment, and create adventure for thousakes without think urban exploration encourages people to participate aging people to navigate mazes of urban structures. We though its our case it's less about encouraging people to we shouldn't see on those occasions when we disagree navigate mazes of technology and more about charer-Injutation is also about opening people's minds

2660, as 2600 was extrainly its main inspiration. Anyhow, I hope (splittersions is true to the spirit of

place. We find the concept of Urban Explorations a what your magazine stands for it was simply a statement of ann editarial policy with regards to the Market-Our response wassit meant to be at all dismissive of Nitijalicious

ing, is really minumbersheed by the undeformed. Here's a fascutantig one but piro one which, like computer hacknew from one of your readers.

est in "urban exploration," eta "UE. go." The particular zine in question is leftiration (www.iofiltredien.org), a Canadian group with an interusieh polyče about "geing places you're not supposed to magazine for printing advartisations for zines that In 20th, Amon O. Mouse writes to eccornin your

locked and there is no other way in (such as an open lockpicks to gain access to wherever they are trying to a basic respect for whatever site we happen to be exhips return periodically to see if any new entrinces window), most UEers will simply leave the site and pergo, this is the exception rather than the norm. If a dece is see something that the public doesn't get to see. We have in mand - we are simply curious observers that desire to Furthermore, while some fringe Hibers occasionally use ploning, and that excess leaving it exactly as we found it We do not gain access to places with vandalism or theft worldwide is "take only pictures, leave only footpoints." moral as the effice of hacking. The motte of Ulbers to understand is that the pthips of UE are as right and tioned in Mouse's letter. What he and your readers need fort that I need to clarify certain things that were men-As a reader of Infligation and an urban explorer. I

simply interested in places that most people don't know We are one wordeds and we are not thieves. We are

lowing that is not about to die. Urban exploration is a fascinating hobby with a ful-

darkism

Pear 2600:

easier to term the knob faster than to peach a pipe down a with clips and a variable resistor to short the tracks. It's then, but it seems like it would be easier to get wires ope down the rails really fast. I wouldn't constant it ei-In response to Jon in 2011 about having to push a

dhax

Dear 2600:

machine's keypad. I know that many stores keep a surmust be obtained and could to open the lower half of the chine can access such logs. (1) the key to the machine However, two things need to be done before the mois possible to access those logs on the machine itself. your friend did not touch the keypost, you can climinate veillance careers on the machine and by showing that machine and (2) the passende must be entered on the star Headquarters in Bettevae. Washington each night. It transactions locally and upleads these logs to the Chining, however, Each Coinster reaching keeps a log of its printing from a Coinstar machine. I do know the follownever seen our board anything about duplicate receipts for regarding the Coinstar network. To be honest, I have lener in 20:1 which was in response to my previous let-This letter is in response to the TheTechnophile?

> one with access to the passende would need to have and destroyed. inserted into the machine and simply was not removed been printed as a test after a new roll of receipt tage was if in, not knowing what it was. The receipt could have chine and your friend could have picked it up and terned dentally printed it when trying to troubleshoot the irrathe possibility that he printed the receipt himself (somewith the code and key to the machine could have acciblaine to your friend's manager either. Someone else printed it). However, this does not necessary transfer the

machine would be especially helpful. of surveillance tage taken when your friend opened the to your friend obtaining the receipt. In addition, a copy obtain records of when the machine was serviced prior exipt he allegedly named in. Next, you would have to expect you would first have to obtain a copy of the re-If you wanted to make a case for your friend's itero-

ceipt in the first place. I hope that this information is a the machine, he would have been unable to print the rethough if your friend did not have access to the code for pheate" receipt being able to be printed is onther high have never seen such a readpt, the possibility of a "do-While I would again like to emphasize the fact that I

arna Si

Dear 2600;

software... but that would require typing. google for a more dessibal explanation of telemarketing a call back within a few boots. This is at least accurate Available," in which case the number will be flegged for preffy easily. Just a side note: if you hang up on a teleother language - something that we could get fired for the call will be flagged as "Language Barries." I was told paign, you mark "Not Interested," One other way to rewied to remove the customer from the current carecable company on the east coast. It was actually a first of if just removes it from that campaign list. This is actusure about other brands. You could probably search with the software that we used (Liberation 6000). Not either as "No Centact" or "DM (Decision Maker) Not sion, more than likely the call will be dispositioned merketer or tell them that you cannot make that doci move yourself is to say that you don't speak English and removes the callet from the solicitation list. If you just their customers and we were calling to try to get them to you said that if a call is dispositioned as "Do Not Call," ender no circumstances no rey to communicate in an upgrade their cable relevision service or to try the cable were working from a list that we got from a premy eval Call." which flags the account and the cable company To Not Call" list, you disposition the call as "Do Not Internet service. If a customer requested to be added to a ally incorrect, at least at the coll conter I worked at. We In response to 'HimBEX's lotter in 20: It in your letter

diffecter

Dear 2600:

sevelt. I transferred from these during the recent trag war. I read the letter from the individual seeking a 2606 Late a former sailor from the USS Theodore Roo-

> the text of the letter to some people I knew onboard meeting onboard. I know gate a few people who I Hopefully the name people will see it. worked with might be interested in such. I forwarded

Walter

Web Feedback

Dear 2600:

ment." That's not cool. You don't need to seare me like gr Esce 12000 costs is now property of the U.S. govern-As I got settled into my house after work on April

Scared in Jona

Dear 2600:

She ii be the judge of that

You've probably gotton a million of these had

Dear 2600:

thorsits up on the April Fool's day website. demosthenes

yeur website on April Feels So I'm sizing here at my computer and looking at Chanks, it's race to think again.

falofa, Me in Downey

in it. Not much thought was put into the design of at fer where I click I always have this feeling of being local Your website used to be cool. Now it sucks. No mat Inacho

web. Then again, we do no to promote that lost feeling. the light few years, perhaps you really any least in the Considering over size hase't changed very much in

Unlearn

Dear 2000:

destructive purposes (whatever they may he). on the other hand, is someone who uses a computer for essentially nothing more than a programmer. A cracker, who plays with computers to learn more about them etacker?" A hacker being, according to them, someone during a rower we learned an appointing test may bear The teacher gut even more specific, saying a hacker is ture the questions. "What is a backer?" and "What is a institute I attend is actually giving out what it considers official definitions" of backets and crackets. In fact Similar to confusedbac's latter in 20:1, the technical

things you'll find in 2000 is a cracker. figures out how to hypass security, or do any number of backer can do nothing more than program. Anyone who So now, virtually everyone in that class believes a

group of people sickens me. Even people in the backet gramming students to think a certain way about any and perhaps worst of all, the idea that a school is prothe "crime" that was committed and let people decide stick with computer criminal, or even better, describe Why even bother? Like 2000 has said so many fines. for themselves whether it was exhical or our. Second cracker, pay no measure except after beobje than it so This should demonstrate two points. First, the term

reacher has no place giving his opinion as lact. community argue over what essetty a "hacker" is A Screamer Chaotix

War 26000

shows, Hacker Culture, John Markoff stories, several writing what was to them simply a long paper. I found case of Kevin Mitnick was. I want to thank you at 2600 now identified me as a backer, I think their understand portant. In the beginning I spoke about backers in criminal backer. While my other peers painfully wrote or who had given into the common perception of the chances I would have to speak out about Kevin and closer, I had the perfect topic, one that I felt was very that exist roday. least now we may look back on your case and realize Kovin is reading this, I am glad you are now free. At and others who have been criminalized like him. If nity. I hope to continue to let paugle know about Kevin truly wonderful what you did to let others know about for the inspiration to write the speech and tell you it is understood and commented on what an injustice the granuted me on my speech, but also many people ing of hackers was more accurate. Mony people conbelieve the speech went over well. While many people they wanted to help in feasilest on the Internet. I truly had been demonized. I made a nice slob; show full of general, what they were, tessed the history and how they utes but there was nothing fleould out - it was all so imthe speech was even a little long rounding out at 15 min knew it, I had written 13 pages on the subject. In the end known. The writing of a just came out and before t Screen Scriege interviews, etc.) to be quite interesting their speeches over the year conducting research and hackers in general to a group who would be uninformed strongly about. After reading your magazine over the on the topic of their choice at an assembly in front of the each serior is required to give an 8 to 12 minute speech work to stop the horrible misconceptions about factors how richenhous it was, let others know about it, and Kevin. I simply learned from this and used an opportuwww.eff.org on the screen to allow others to go there if did my speach for the whole school. In the east, I put pientres from kevinmentek.com and other places and I and I learned so much more about Minick that I had not Downtime, 2000, all the great and tived Off The Hook my countless hours of research (including Freedom many times, I knew this would be among the best years and watching the fabelook Freedom Downtine important and controversial and one that I felt very knew I would talk about hacking. As the speech grew bereative. From the beginning as a young sophomore, I whole school. The speech must be controversial and in-As a requirement for graduation at my high school,

#10V7/20 AT that you may have actually made a difference is well degree of charge. It takes hard work and county to step into the fray and present the facts. But the feeling ing out to the uninformed our we ever hope to achieve a We congressiate you on your efforts. Only by reach

The tepic we have chosen to study is that of the dangens of that coopes. We understand that you are affiliated with this roote. As a necessing component of this proiect, we must write better and conduct interviews. We would like to know if you might aid us in our mission by contacting either by e-meil, letters, elephone, or in person to give any information argurding the topic. Specifically, we'd false to know with your unpaintedion is supporting that rooms when it is known that they harbor such dangers.

It is strange that there are still expeniestions that promite the use of cher rooms as a consummissione device effort so many incidents have occurred. Why does your company processes them? Expecially your company, processes them? Expecially your company. You are backing magazine? A casquinc that unificate such dragers to take advantage of oblithon and forcest conspanies? What is the meral beford the? Our group would like to know why you and your company think it is OK to back and as a result of this, precade the extremely helpful if you could answer our questions as we are interested in your regardenics. If you have further information or brechures of any trial, other tig-ments, please created as

Amanda, Camille, Meriant, Christina And who says that schools there days are prope-

We appreciate the questions and only wish we had received them before the end of the solved years that is sometim or if year be already made year conclusions and are simply leading for my to fill in the parts about the bed page.

When exactly did we go around promoting rhad recent anyway? What's off this about taking advantage of "children and houset compounds?" And we promote whiteviews and abuse of advicercent?! Sure teacher must have worked for a political companys to successfully per you to believe such outp without any support ing evidence. Some legas of logic news whale he more accelerated than the program you're us.

We don't enjoy invalving a bunch of eighth grade girth. Not a whole his anyway. But we find it's only right to also offer you some adhree which it checky more than you were given in this corry excise of a class. When recking out the facts it a strop, and them before reach it's your conclusions. What hid of response do you expert whose you make such night ulost accusoitant and port whose you make such night ulost accusoitant and port whose you make such night ulost accusoitant and soule thom as if they have fand?

Perhaps this was all sows subde way of teaching you of the dangers of perjudging a group of people, in which case your transfers in a pening. We be troug real hard to cling to this possibility.

Random Observations

Dear 2600.

thing silly like 127,000 1 connected to a book IP network. At least it wasn't some the two was in a ferrign location and could have been use "ssh root@10.2.2.2" aryway. Also, for these who attand line shows "#" at the end. On every hex Processes by JANA as subject address. This seams OK, being as dual know the IOx.x.x address space has been reserved unless specified otherwise. It would have been faster to tempts to send your local occurrence to the remote server with every implementation of SSII Eve ever used, it atseen, this denotes the prompt as belonging to coot, and remote, even over SSH. And the restandant: the earn redundant. The bad: Having met allowed to login from ting enter twice. One thing have is but and the other is a real Linux-booking command prompt and proceeds to Arms Moss) councy to use a Panasonic Troughbook with towards the chimax of the movie when Trinity (Carrie with a group of friends. A few of us had a good chackle "ssh 10.2.2.2 -1 mor". She then can be clearly seen ha-Just saw the new Matrix: Releaded movie roday

Upon a second vessing, we saw this she actually used image to map our that these and sow itself 22 was open, and somethous she knew that a was SSH just by the part. Then she runs "schricke," perhaps an in-hunsy hack? I wasn't shok to find anything online. The next monthing, I was reading any usual shedder ong-becurity-fectus comnews, and Kevin Poulson bad written an article in which ber hack that been skentified as a vulnerability in SSHvI where a buffer overflow state could occur when a remote user sent large packets to first hast. That a 32 bit representation of the packet large hast. That a 32 bit integer. The resulting difference in that presentation causes the 16 bit integer to be set to cover a really lew value.

Then as a readi, future malloc() calls that reference to that memory levelous can be corrupted to an attacker allowing arbitrary tooks to be inserted into a legitimate process's memory space.

She exploits this vulnerability to soundlow that down power all throughout 27 city blocks. I can't say much more without rotating semething, the reyway, I was glad to see a big disket Hollywood movie porray, something involving computers correctly I would really like to see a facilitious film with a "real" plot about backing/phreaking/social engineering, etc.

frement dslam

It's amucing few many people have commented on this which only proves that people acrossly do pay amoution to the little details. It really adds something when they're somewhat true to scaliby.

Dear 2600:

I have a few comments to make that I hope analytis will take with a grain of salt and consider with a critical mindset. Ahem, a story:

Eve been following the Mitnick organishes: I started reading 2500 in 1998, Luckity I had the opportunity to act. Kevim Mitnick speak at a business convention in Mitnicks for days ago, I even had the chance to stake lies hared afterward and say thanks for centing by. His presentation was, in summary, granted to boost awareness of the threat posed by clever social engineers.

1 pags given free tickets from my employer, so I was du

On to the next reason for writing. As I waited in line is most Kevin afterwards, I saw another guy holding an issue of 2600, in hopes that Kevin would sign it the was come a back signing). I made the attends of trying to be line boddles with this fellow. I jokingly antistated the pine boddles with this fellow. I jokingly antistated the concernation by saying I forgot to bring my issue of 2600 along. He asked if I had been to any of the evenings which I hadrit. He responded that the Minneapolis 2600 mortings haven't been very good for at least a complete of years but the still attends them. I was glad he stack with it, or so I thought. After a brief period, the gray slid and an exclusive brater that made my eyes roll back into any head. Taking about his friends "run rfing" Apple State computers, by used the weed "latmas" and "kiddle such" a half a sharen times in our two minutes together, probably without even realizing it. Maybe he was excluded to not into a fellow reader, but the way he talked

Sidenote feed in, I'm betting you're going to read this and think I'm a real energy assistable. There's a chance that I am. I applicable in advance for fingering you (and 2000 Minneapolis) in frost of everyone rending, but I had to get this out.

about his group's activities sounced grossly egotistical.

tion of baving fun with technology. But hey, others may ens who can disprove my less than positive impresthink differently. I hope that there are other serious madthe sense of experimentation, the mindset, and the tradipolitical worth, but are more excited with the shock give me the idea that they sien't fully award of 2000's print. Kudos sa you. However, some readers Tendounter reacheship, but I've always come back to realize that find my doubts about 2600's presence, as well as its mindset. No 2600 readers that I've casually encountered value associated with backing. I think about becking in 2600 is the only organization doing anything worthy in in person have proven this to me. For brief periods, Twe social, politically oriented zine that presents a mature but I am aware that 2000 aims to be a mildly profes-I don't consider myself as being anything special

So arraway, given the 30 seconds of my time with Kevin Minirk, I got the other that he was a genuinely nice guy. I mean hey he had a really good handshake. However, there's ideay in the foreign that Kevin Minirk, for goducker, who just prevaled about the trustworthy appearances of social engineers like himself. So, I'll have to maintain my duries and keep my sospicious.

Dutin all seriousness, maybe those who ment Kenh in Nisson, or at least those that read about him, will real the fluid backing in the entirely about impressing your frends or showing off to some random dade on the street like myself. Use your knowledge to create, tinker, and do something worthwhile. In my cycs, that's always poing to be more impressive than mindless talk.

We can't really say it any bester. Since the factor broad is so open it's any possible to regulate who goes around calling themselves a harder. If it were possible, then it wouldn't be the harder world as we know it. And thanks to the misperceptions of what harders are about, all hinds of people are drawn in booking for attention all hinds of people are drawn in booking for attention all hinds of people are drawn in the state.

this is almost any forms where harkers are involved, whether is real life or online. It's unfortunate and a real part in the are but it's not worth giving up over like all part in the are but it's not worth giving up over like all part any values, a for of good real to part if's on whe the treakle to look. And those who have the leaviligence and the partners to do this will be analyty remarked with what they face.

Dear 2600:

chasing down lockers, and why is the MPAA involved focus: How does this all relate to the actual showing of the apportunity to see a better show. I have two ques he teels will render bother results in line and give him promotion of the movie industry, to see a movie which minutes to cross four Frustrated, he decides, in a gross cross one pertion of the sidewalk, then it will take 20 mark's to discover that, sensing if it takes five minutes to and he would not be able to buy in time. He uses mathe way show, but he realized that the line was way too long cated to "Oberchase in real life," as it is called. In this and disrespect what a bucker is. That's not the kicker, their and interesting stuff, so I have to give them credit scene, a real person went to go get tickets for a Broad however, since there is also a portion of the show dedihackers, especially in ways which completely disregard ability to calculate volume). For a kid, it was actually tion of creative ways to use math to solve everyday taining to see a crew of white bids snowball the enemy, h's quite interesting, indeed, backee not only is it enterthere, but I find no connection of that to chasing down for solving bow many jellybeans are in a jar using the problems (not in the show itself, but in the "extras" like thought, was the way the show implemented the prome-"Hacker," as he is known. What's even funnier, I I happened upon an episode of Cyberchove on PBS

8

Nat 2600:

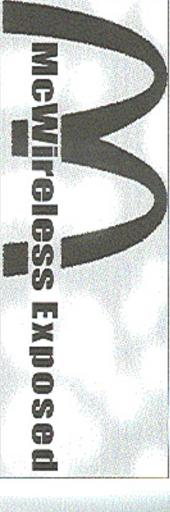
I just finished translating the text underneath "A Glimpse of the Fature of Computing," in the table of contents of 20th. In our changing world I think that you are content. The center of the world is everywhere. (Or excer accurately, nowhere.) As information becomes more fixedy available through the Esternet, in many more places in the world, there wally is no central local tool. I total seeing the juxtoposition of the particular phrase next to that particular article. Great work, once again.

Sunfis

War 2600:

What is the deep philosophical meaning of the cover on issue 20.17 Is Lody Lob R. Tee trying to tell us we are all to review (Necesspos). Gestemals. South America, etc.)? Is she coiling for more spoody arried men in the streets of our country? Is she including terrorists to speed all over our country? Is she making a cynical statement about the mainstrated communication that terrorists are nowywhere (2003 behind yout)? Is she just high and doing one of five weight high-people things? So far I just think that at it stoke lost some from Ghoubarders II.

continued on page 48



by Epiphany and Johny_Lightning epiphany@port7alfiance.com j0bnytigbtning@hotmail.com

exploration was conducted from a laptop run-Free BSD 4.8 with Prism II cards. ning Windows ME and a laptop running ing at several of these Wi-Fi spots. Our period lasting through the 1st of July. This artiele is a compilation of our findings while playaccess to their customers via 802.11h for a trial McDonald's locations are offering free Internet Through word of mouth we heard that select

The Basics

people will be forced to pay three dellars for 60 to bundreds of locations by the end of this year. have enough cards to find a pettern. Comets are generated using an algorithm, but we do not passward is five digits. We believe that the two ner. The username is five characters and the name, password, and serial number in the corparticipating Medonald's. Each card has a usercard is given out with every need purchased at a ing the pilot period a card resembling a calling minutes on the network. (Or so they say.) Durmap can be found at www.niodwireless.com. locations scattered throughout Manhattan. A this writing, this service is available at only ten Networks plans to take this project nationwide dald's is called Cometa Networks. At the time of The pilot period will last until July and then The company that brought Wi-Fi to McDon-

nected to the network automatically. Winipefg FreeBSD machines respectively to get IP and dhelient were used on the Windows and 'corneta'. Both of the laptops we used con-The SSID of the McDanald's network is

Fooling Around

machine, a DNS error popped up and the When a web browser was opened on either

> wanted to see what was possible. We found that DNS names could not be resolved at all: logged in with the accounts on our cards we but trying to login causes a egi error. Before we browser reverted to legin-contensativorks.com. This site is currently accessible on the WWW.

≥ pieg www.govgie.com

ping: cannot résolve wavegoogle.com

Unknown host

% ping 216.239.51.99 However, pinging Google's IP was successful:

PING 216.239.51.99 (216.239.51.99):

56 data bytes

64 bytes from 216, 239, 51, 99; icmp_seq=0 13-48 time=190,319 ms

wasn't. It was time to log in and work from able to make any TCP or UDP connections to directed to the legin page. Our boxes were not view a web page was not. The browser was still ing Google was a success, however trying to change this setting in control panel -> network ing /ctc/resolv.conf. On Windows you can our local ISP. On *nix this can be done by editwas change the IP of the DNS servers to that of any machine's IP address. The next thing we did was a bust. So was trying to telnet to any port of site by putting the IP of Google in the browser duced that TCP/UDP was firewalled, but ICMP ing to a shell account was also a bust. We deany boxes on the web at all. Telesting or SSH Now our boxes were able to resolve hosts. Fing Unfortunately, trying to connect to the web-

Making restricts
a sacing with
Characists and Comets

changing this code did nothing except cause an error. At a later trial we found that changing the of opening the login timer. Unfortunately some interesting JavaSeript that was in charge naire page up. The HTML on this page had After putting in a login/password a question

14500075

おきないのである。

from time to time. default setting causes errors DNS is beneficial, because the

attempts at pilforing we discovcode. The suspicious code was ered some interesting HTMI Elis particular sinne: without logging in. After some formation we could uncover the Windows box to see what in logged in legitimately and used We kept the BSD machine

<INPUT type=hidden value=12</p>

103.97.40mme=UIP>

other locations have similar backdoors which in busy to be limited to 60 minutes. This IP adpage was set up for technicians who are too through a browser, (http://12.103.97.40:1111), came up with several unusual port numbers. It you may get lucky.) scanner. (Just search all the bops for 1111 and theory can be found with traceroute and a port lar McDonald's we were in. We believe that traceroute on 12, 103,97,40 showed that this was subtle differences in the HTML. A carious "backdoor" login page, except there are some dubbed this "The Back Door," We think this brings up a totally different login page. We have was one of these that brought us to a discovery. like this was local to the network of the particuthe first and only hop, meaning that logging in dress also has port 80 open, with a similar It turned out that connecting to port 1111 nmap for BSD and SuperScan for Windows we With a quick portscan using

our computers to connect to the network but Logging in through the backdoor allowed

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one account is enough to come back forever and belief that it is possible that the username/passalways come in the backdoor." stapped a sticker on the wall that said 'Hackers stay logged in as long as you want. Before we with the expired accounts. With the backdoor erated and the local backdoor is not updated word pairs on the cards are algorithmically genworked without a hitch. This only verified our legatimately. This caused an error. The backdoor expire and tried to login with the same account door, we waited for one of our accounts to left our McWireless exploitation marathon, we sance. To test the actual validity of our backwithout loading up the 60 minute timer nui-

Wrapping Up

wouldn't leave you without giving you some logins for the backdoor. ticle for when the pilet period is over and the hear from you. We are planning a follow up arservice is no longer free. And of course, we with wireless at McDonald's, we would love to If there is anyone out there who has played

cvktd/57517 fksdi/42587

The little straight of the str to corners. To accompany of Perforance of space For Technical Support, call (800) 3-COMETA Citin the Colonians and Ps. award pader in the Noticeon. CASSACOLES! Transfer and the second of the second second of the second second of the second fulex & cometa stankdawg.com, MADrow. usystemsik, finabell, energone at portTalliance.com, xiiub/71958 nexto/H833 Shours and thanks:

Reception

by ddShelby

onellyneticen, seattlewireless.com, and turnwritten article. I also would like to acknowledge pointmet for the atformation contained in this would like to acknowledge Dragorn for a well-802.116" in 19:2, I dove headfirst into wireless. I Since the article "Comprehensive Guide to

nodes on the Upper East Side of Manhattan are few and far between and my rather anemic sidered wireless. However, nyewireless.net steep at \$70 a month for a 128K line. So I con which I live. D&L is available but seemed a bit tion is not available in the agartment building in Nergear wireless can't reach the nearest node. Warner and the landlord, a cable Internet connec-Supposedly because of a dispute with Time

on the Lucent Oriocco Silver. It's a 40-bit WEP to an N male connector from fabourp.net did not matter. I picked up a four foot pigtait cacard only but it was cheap on Ebay, so to me it ble that adapts the connector on the Orinoco card has provisions for an external antenna and settled So I looked around for an 802.11b card that

Some Connector Basics

connecting to. Here is where it can get a bit bairy. nector that will attach to whatever device you are across thus far are all equipped with a female N. that this is the norm. The antennas I have come common is the N-connector. These are usually the 802.11 world that need mention. The most The other side of the cable (pigtail) has the confound on the antennas themselves and it seems There are several types of connectors used in

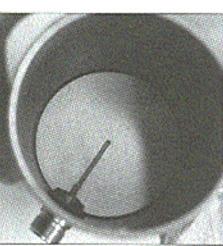
these connectors. I suspect, originate from the SMA is Subministare type-A connector. All of Naval Connector, TNC is a Threaded BNC, and for reference, BNC is an acronym for British ally indicated as an RP BNC for example, Just female. The reverse polarity connectors are usupin. On a reverse polarity BNC, the gold pin is small gold pin in the center of a BNC is a male are available in reverse polarity. Simply put, the plicate things just a bit, all of these connectors the model and manufacturer of the card. To comnactor. Connectors on the WiFi NIC's depend on can come with a BNC-, TNC-, or an SMA con-Devices like access points or wireless bridges

information on agrenous for 802.11b. O'Reilly A search on Google revealed a few sites with

> (www.eccillynet.com) and is a great place to start if you're new to this like I was. had the most extensive information I could find

compared to the Orinoco card itself. with site and found significant gains as compared Yagi, I constructed it exactly as laid out on the do with the addition of a Pringles can as tenna. A total gain of 11 dbm was the best 1 could to the Orinoco cand without any external anhttp://www.orcitlynot.com/cs/weblog/view/wlg/448 My first antenna was the famous Pringles

the N connector accordingly at one quarter wavetried an 11 ourse Maxwell House cap. I mounted what you have lying around the house. I first said, there is no learn in experimenting with matter on the grocery store shelf. But this being mensions in a coffee can or anything for that cant cost, especially if you're a caffeine nut like copper wire I used a piece of grounding wire antenna. The construction of the wave-guide is myself. The ideal wave-guide antenna for 2.4 you can sacrifice many coffee cans at no signifia piece of copper wire is all that's needed. For the can itself and the addition of an Niconnector with casion since it does not involve the use of a ongth from the back of the can as calculated by 10 inches long. Good lock trying to find those di-GHz is about a 3.25 inch diameter and just shy of the simplicity of the wave-guide construction from common household electrical wire. With threaded rod and washers as the Yagi does. The The other antenna choice is the wave-guide



tenna, the overall gain is typically lower. So it to the 3.25 optimal diameter. Although you may

prefer something primit directional like a mast anate than the Pringles Yaga or a wave guide closer guide from a 39 ounce can seems more approprinon of 2600, and still remain unencrypted. For

then stick with narrow thameter waveguides or

Yagis. If broad coverage is what you're ofter then you are looking for directionality in the signal

security wide diameter waveguides of mast

Having established the difference in gain and

2600 Magazine Summer 2003

to teach the nearest nyowireless node closest to

let can. I needed as much gain as I could got just

launched a quest for the ideal 3.25 inch diameseam pattern associated with the size of the can

> money for a higher gain disk? Well, not quite. noction, and dropouts were still too common. So then I thought, do I have to spend even more Llough for a commercial 2.4 GHz an tised gain of 14 cb. The noise on this still not enough to get a consistent extra Despite this, the signal to noise ratio was tio was in my favor by about 3 dh structed, so the overall signal to noise ra than any homercade antenna I had ever commercial antenna is slightly lower tenna. It's a dish style that has an adverinches long. I decided to just spend the search for a 3.25 inch diameter can at 10 parking garages, countless brownstones. three high-rise apartment buildings, two my apartment. Blocking that node are and three blocks. After a near exhaustive

Dream Cans?

with my laptop. My pigtail would only let me stray four test. clean signal to the AP. Now 17 db for a tennis was \$2. I panished a hole in the can at 2.49 inches tennis balls were about \$6 and the N connector oversized rennis hall for the geriatric crowd. that 3.25" x 10" ideal. While shopping for new roller drawback is that I had to sit near the window include any green fuzzy things to play with. The like the one I bought east up to \$80 and does not might imagine. A commercial antenna at 14 dh ball can is more gain for the money than you the tampoint net script calculated. The result was from the bottom and mounted the N connector as that the length is just about 10 inches. My throo inches tharmeter. And the icing on that cake is But this one is a bit different. Wilson makes an now made of the same plastic as social bottles. tieed a tongis ball can. Most tennis hall cans are blades at a Sports Authority on Long Island, I no-17 db gain, just caough for what I needed to get a just so happens to come in a steel can that's 3.25 Ah., well, sort of, It certainly looks like the

Two Weeks Later

those of you also warehalking the larger wave show up to the list prioted in the Fall 2002 edibler. With the 39 cance can I now picked up a

total of 11 AP's as compared to nine AP's with tional access points according to Network Stainslightly to 13 dbm but I again noticed two addianswarded variables. As it turns out, the gain fell

the III ounce can. Of these AP's by the way, four

script on turnpoint.net. I reasod the N connector

from the 11 cance Maxwell House can to avoid

quace can and cut a hele according to the handy ory was in fact correct. I chose the Folgers 39 again with a larger diameter can to see if my the construction lending to a wider partern. So Uried see before. This could be due to the additional happened through; using Network Sturnhler

gain but I thought it might be the type of antenna picked up three more access points that I did not db is a doubling of the signal. A loss of 3 db in

noise is as good as an overall gain of 3db with refor a total of 14 dbm. Keep in mind that every 3 Maxwell House can gave me an additional 3 dbm

spect to the signal to noise ratio. Interesting thing

point net/wireless/cartenna/iowto.html.

As compared to the Pringles can, the

the handy sempt located at https//www.hum

more than twice the rated output of my Onnoco a reverse polarity SMA to N male pigtail from an API already had lying around. So, I picked up caperiment to see what else this thing was good contract wirelessly to each other to bridge two to go WiFi or, using two of these WETH's, to the WET11, First, the WET11 output is rated at wired networks. I got to thinking and wanted to essentially giving a Cath only device the ability 71 mw, which is more than most WIFI cards and fab-corp.com to hook up my Wilson antenna to for, I wanted to connect through the WET11 with Linkvys WEITH is sold as a bridge, not an AP This new Linksys WEITH is near The

guilty for spending 80 backs for it. card, I can use that dish I bought without feeling

Another Wave Guide Idea

with various sizes and lengths can be worthwhile everall gain by as much as 6 db. Experimenting cal soup can off any supermarket shelf. In this ferent from the material used to make your typi locted before they enter the can amplifying the dia. This acts to increase the radio waves colcase it's an adapter (sometimes referred to as a Stovepipe is thin sheet metal and not much difsome stovepipe littings from Home Depot less com. It's constructed using a peanut can and construction can be found at www.seattlewire you can still obtain 13-14 db. The details on its can pull up to 18 db if constructed carefully. If reducer) to go from a five inch dia to a four inch you take shortcuts or if it's poorly constructed, There is another design in wave-guides that

sensitivity of the WETH versus the Oringco and who knows? You might stumble onto

ISTRIBUTED REFLECTIVE

DENIAL OF SERVICE HTTACKS

http://hyppy.zapto.org by Spyrochaete

way to express your opinions. costs someone maney. Find a more constructive neither should you. Hosting services online wouldn't commit the acts described below and those with an interest in Internet security. I The purpose of this article is to educate

(danumit, Jim). Sorry if something I've said is inaccurate, G.I.G.O. I'm a college student, not a professional

traffic continuously flowing through the virtual hardware is the Distributed Reflective Denial of ours without detection, for example, to attack Service (henceforth DRDaS) attack managers of intermediate communications is particularly effective and undetectable by the the system of their choice. One such attack that the powerful hundware at the system's logical minded individuals to harness the services of veins of the Internet, it is possible for waywardcause of the treasendously high volume of rary pathways from source to destination. Befragments of information along various tempooverlapping array of hardware that directs small The worldwide Internet is composed of an

> this type of attack is in order to fully understand the ramifications of this new threat. Service attacks. An explanation of the history of DRDoS is the latest in the series of Denial of

quently) the overhead in computing resources is does, regularly and inevitably, however infregrace period before abandoning them. Altering to be misinterpreted by the computer on the (SYN) pecket will become corrupted causing it ally an ordinary, legitimate synchronization kiddies." A propedy motivated individual can host. When this occurs innocently (which it chronize with a nonexistent (or unresponsive) facts the converse computer to attempt to synpacket hides the origin of their source and dithe source IP address of an outgoing SYN other end. Servers allow such packets a short swipping synchronization packets. Occasionclient and server become aware of each other by ities in the TCP/IP 3 way handshake in which a ically. DoS is the result of exploiting voluciabiloverloaded with fraudulent instructions. Specifvice is the result of local routing bandware being of their choice with little effort. Denial of Sereffectively perform such an attack on the target is one of the more common attacks by "suript The standard Denial of Service (DoS) attack

> artack would be that much more effective. chine than the one at his or her disposal, the can harness the power of a more powerful maacction so that its services cease. If the attacker cough to sufficiently saturate the victim's conperformed by a single computer frequently monsequential and bannless. But when exdoiled by a malevolent individual, this can be

pey. By randomizing the spoofed IP address fected by the completion of the packets' jourunwelcome packet, the network will not be albegged down as it examines and discards every attack. Although the security system will be quent packets is a way to reconinate such an wall to ignore IP addresses generating too-freis not likely to be very powerful or completely solution can be invalidated. generated in each packet by the attacker, this incupacitating instructing a main router or fire-An attack originating from any one machine

puter to a common server (e.g., IRC) from common method of secretly achieving control over them and issuing simple commands. A computers ("zombies") by acquiring control attacker incurs the services of several remote an attacker tack can put almost any system at the mercy of making the process even more difficult to deca masse like a general commanding infantry which the attacker can control a list of zombies which installs software that connects the comover a computer is to distribute a Trojan virus attack uses the same principal to debilitate its fead against. A properly coordinated DDoS at DoS attack, saturating the victim greatly and Each zombie simultaneously performs its own arget but is expenentially more effective. The The Distributed Denist of Services (DDoS)

by 3000 servers) is sufficient to overwhelm virgenerated per intermediate attacking server will number (hundreds) of innocent clients, alerting attack and is quite ingenious in its design. DR. Bally any system anywhere. for example, 2 packets per second multiplied attack will be noticed by administrators at all legitimate requests, that it is quite unlikely the be so insignificantly small, perhaps smaller than certain service. The very small amount of traffic them that the victim's computer is requesting a tainted instructional packets to a very large manner. In a DRDoS attack, the attacker sends but it does so in a stealthier, overwhelming power of several sources to attack one victim DoS resembles DDoS in that it employs the the astronomical number of service packets DRDoS is a very recent iteration of the DoS

der Galeway Protocol (BGP) attack. Routers One example of a DRDoS attack is the Bor-

> chooses to terminate the cycle. entirely and immediately until the attacker coming packets will incapacitate the victim sending a sweep of tainted packets stating that tacker then cycles through the list of routers, An enormous list can be compiled in a few pipeinc.com and if-10-0.com/.Chicago3.tele scriptive FQDNs such as radshge34.mt.big the Internet. This can be verified by resolving core routers that bridge the huge segments of five entries. These entries are very likely to be of websites and cataloguing, say, the middle forming the IP utility TRACERT on a number routers. This can be done very easily by perfirst step is to acquire a large list of fast internet preparation for such an attack, the attacker's for and granting permission with each other. In neighbors (routers sharing borders) by asking regularly exchange routing tables with their change routing tebles. The sheer volume of in hours automatically via a simple script. The atglobe.net obviously represent central routers). the names of the IP addresses (for example, de the victim is actually a router requesting to ex-

employ this function. Unfortunately, the majority of ISPs do not genuine service if the server must occasionally tack entirely, but conversely may impode range (ports 1-1023), disabling all communicamajor routers because they are required to comattacks lies with Internet service providers who the only viable solution to this (and many other) act as a client to fulfill its regular duties. In fact tion from these ports may prevent such an atservices are distributed inside the service socket municate with yalid clients. Because network sible to block the IP addresses of the Internet's ble for the victim to defend against. It is unitea-IPs from leaving the confines of their services have the power to prevent packets with spoofed This attack, at the moment, is truly impossi-

an attack. Auditing a network's activity and emtaken lightly. It is the responsibility of every cem for the networked world and should not be essential to keep one's site secure. network administrator to be daugent in preventing their own domains from taking part in such ploying diligence, education, and in right are all DRDoS is a very damaging, very real con-

by fanchers. floss, and efnet #2600 before it got raken over dadak, purple nusion, skaven, necros, mental Shouts to: resmitters, lord_nikon, exiom

Works Cited

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Learning, Albany, NY, 2001

FINWITH THE NOKIA 3310/33/11

permanently displayed while the phone was in diately amonyed by the "AT&T" label (alpha tag) When I first got my Nokia 3361, I was immefragspaz@fragspaz.com

cure" mena options for what they are: Wide open. Nokia 3360/3361

Nokia 3560 and 3361. Also, I will expose the "sechange the alpha tag and network settings on the standby mode. This article will outline how to

the label 3361 is simply a way for AT&T and tomer willing to sign a contract. My guess is that exclusively to prepaid customers (no contract). Nokia to identify prepaid customers by model The 3360 can be purchased by any AT&T cusmy knowledge, identical. The 3361 phone is sold The Nokia 3300 and 3361 are, to the best of

Field Test Mode and Security

will take you to a menu with the following op-The alpha tag can only be changed while in Field Test mode. To enter Field Test mode type gency, SW version, Serial No., Programmed, and tions: NAMI, NAM2, NAM3, Security, Error-<3001#12345# at the main standby menu. This</p>

take a look at the other mont options. Before getting into the details of this option, let's NAMI is where the alpha tag can be changed.

options such as costricting all incoming and PIN, thus locking out the user from 'secure' on any Nokia phone without knowing the original door open for anyone to change the security PIN ing the security PIN, this effectively leaves the entering Field Test mode does not require knowbut The "Security" setting allows the security far as I can tell there is no way to change the fileld fuse those cell phone sales people too much). As the same on all Nokia phones (so as not to eco-PIN. The default code is 12345 and is probably code to be changed, without verifying the original Test PBV from the default *3001#12345#. Since The "Security" setting is intainfully anything

PIN, but no such cigar! would carry over into changing the Field Test I was hoping that changing the security code Field Test mode PIN and as default Security PIN Notice the string 12345 appears both in the

On a final note, the security PIN must be a five

100,000 possible PINS range from 00000,09999 terring exactly allowed. Thus, the total tange of possible PINS igit itumber, no alpha or special characters are

to "911, and "Emergency 3" is blank. All three long distance emergency services can be changed to any 1-8 digit number. What, no "Emergency 1" is set to 911; "Emergency 2" is set The "Emergency" ment contains three slots

"SW version" lists V 03.06 16.08-02 NPW-1PA

helow the hattery. It cannot be changed. bec. It matches the ESN number on the tabel "Social No." is, well, the Thicker Social non-

of programming, but my phone had MMYYYY once charged it cannot be charged again! listed. I changed mine to 052003 and learned that "Programmed" supposedly contains the date

by default. I was unable to do anything different, or detect any differences with Field Test Enabled Enabled+lights, and Disabled. It is set to Disabled "Field Test" lists a sub-menu with Enabled,

Programming Alternative Networks Changing the Alpha Tag and

Appearantly, the default tag "AT&T" is pro-Changing the alpha tag in this menu will not afseveral options, including an "Alpha Tag" option. mean, it's time to change the alpha tag. While in P/RSID slots, numbered 1-5. We need to go one level deeper by selecting grammed out of reach, even in Field Test mode. tect the alpha tag displayed on the phone screen "I'SID/RSID lists." This will open up a list of Field Test mode, select "NAM1." Here there are Now that we have looked around the main

of different areas. Simply set up a PARSID slot for your custom alpha tag when traveling in and out work connections. This is prest for maintaining possible to program in five separate possible nereach geographic area you frequent. loated in the "System" menu later on. Thus, it is to be programmed in, which in turn can be se-Toose slots allow alternative network settings

in all U.S. AT&T service areas and the U.S. comcountry code. The SOC value appears to be 2049 value, an Operator (SOC) value, as well as a number, a Connected System ID, a 3-4 digit known as Home System ID), usually a 5 digit you will have to enter a PSID/RSID value (also where an alternative network can be set up. Here Select a PJRSID sket and we get to the area

> ing Google for "pixid list" and that should got you successful in soliciting the info from AT&T, but through a couple of Google searches. I was unskills and see if you can tease it out of your local gathering. You could try pescricing your voice SOC in your area, you'll have to do some info pgSID (Home Sys ID), Connected Sys ID, and tem ID differ from area to area. To find the ty-code is 310. The P/RSID and Connected Systhe info is available on the web. I suggest search service provider, or let yeur fingers guide you

pha Tag" slot. All characters are available when ready to enter your custom alpha tag in the "Alfact: reboot the phone by turning it off for a few entering your alpha tag. To set the network in ef-Quice these values have been entered, you are

out and select "Automatic" and the 3361/3560 custom alpha tag listed as "available." Now back NAMI/P/RSID info is correct, you will see your sults of all programmed networks, and if your select "Manual." The phone will do a search for nection. Go to the "System" Menu (Menu 3) and way out of Field Test Mode. available networks. Scroll through the search reseconds and turning it back on. There is no other Now it is time to test your new tag and con-

to them whenever possible. The only time you phone is in an area with really poor reception. will see the "AT&T" Alpha Tag will be when the Now take a break and go see Motrix Reloaded

will prioritize your network settings and delault

hy KedboXing Still Works (sorta)

by Plazmatic Shadow plaz@kevinsnet.com

within the limits of the spirit. tions for it and I think it's rather annoying. Sure it "degrading" forms of phreaking, but it still kept was one of the "easier," sometimes considered mymore. Eve beard about 40 different explana-Everyone says that red boxing doesn't work

beginning to notice. AT&T stopped accepting coins for long distance seem to work for local calls either or so I'm calls. That's probably the main reason, it doesn't Why doesn't it work anymore? For starters

a fixe op, which I had gotten pretty good at. cided to try the old local method of going though In some fresh batteries. I went to the nearest payfried at I dusted off the old tone dialor and popped ence a few months ago. After I read in various Phone, and AT&T no longer accepted coins. Lice places that it didn't work anymore, I ran out and With all this in mind, I had quite the experi

while I connect your call. and this time she said her usual, "One morneot to try once more. I went through the process again them and said they didn't go through, asking me posit my coins. When I finished, she "returned" She asked me for the number and told me to deher I was having houble with a local coin call I dialed up my local Verizon operator and rold

She was just being nice If my coins had finally registered. As it turns out, was just being nice and putting my call through or While she was doing this, I asked her if she

responses I got worth printing area I tried the same process on a few other phones in the area, with similar results. Some of the

to think your little toy still works, so that you'll keep using it and get cought. Now you know this во Ет доляд го вигид цр. I'm just pailing it through so you'll consense

Just this care. Toy the tone-shape again, I'd I'm just a nice person

and with the phase not working and everything. I call the police. This sound so desperate try big 76 make a call

your call through because I trust you." thought Ed jast help you out." "You sound like an honest person. I'm putting

beard the been, so I figure you gut the money in." And the most common response was when the The computer didn't register the sours, but I

eurober for service. Please my another phone. call did not go through: "The coins aren't registering. I'll subrost this

noment, desperate, and/or nice, your call will be instead of the computer. speciator into thinking you showed coins put through. It's kind of like social engineering. The red box serves the function of tricking the The whole point of this is that if you sound in

fresh AAA butteries, and start your calling. operator, your call will be put through just for by-ing. So dust off the "old red boxes," get some ing. So dust off the "old red boxes, Basically, if you're on the line with a half-nice

anyming else remotely related. I'm interested in If you have questions, comments, thoughts, or

continued from page 39

Happy backing with the DirecTV models TERD E11 and HIRD-H25. cess to the service/technician's menu. This trick works select button on a Direct V receiver, you will gain no-I have found that if you push the up arrow and the

about this problem and can't find anything about those if out Anyways. Die boked pverywhere I can think of their flaw, but with gas prices these days, let them figure forgot to charge my account? Sure, I could tell them that have this problem. So, onjoy the free gas while it with a certain station - I found a white variety of stations pumps and how the transactions work. And it's not just would've been caught a year ago. But is it my fault they day. Apparently they can't find out who is taking it or I other gas stations that do this and still use them to this tank. I press cancel and off I go. I have found a few pump with your credit card. So after I finish filling my the gas pumps that ask if you want a receipt ofter you around. But it's very easy to do. This wall only work at year until they caught on and changed the system a dime was taken from my account. This went on for a was hirting that same gas station for about a year and not the transaction never carse out of my account. In fact, I cel. I didn't think much of it until a week went by and asked if I wanted a receipt, I accidentally present endcredit card when purchasing gas. Well, when the pump ing at the gas pump last year. Most of the time I use my a for from it. I stumbled across something very interest-Just wanted to say I love your magazine and learned

And you deserve credit for figuring it out and telling the it's completely their fault and their responsibility to fix samething the this expecting that you want he charged is State Language with sold that was also been considered in the You're taking advantage of a stupid software crear but her of things hur it doesn't change that single fact. high price of gas or U.S. policy in the Guiffor any nam rapping off the selber. You can try and family it with the guilty about styping off the oil composites, this could be ture of this little security hole. So if you've been feeting We'll beryour terrer will born a hig effect un the fa-

there is a truly marking on their end of the deal. I realize found on Amazon.com. It's a subscription to your great exader's commignis, but whatever you probably strondy know about this secting as it says Denr 2600; \$52.57 (\$15.14 so issue) for the subscription. It seems publication. There's one problem though, They charge I just wented to let you know about something I

on numerous places of leadhack sens in by various peaple. We'll keep you apdated. up to, nor have they adjusted the price dominional hased not responsible to our inquisies as to what exactly steep be you for hotoging it to our attention. So far Amagon has Actually, we didn't know about this at all. We thouse

The art 2600;

Officer Changes) which also was extremely good. It is all too easy these Lalso purchased a copy of the video Facution Downline Good rights stomping I want to tell all of you at 2600 So, in these days of anti-hereot medness and constituplimens and approxiation to those who do a good job days to be entical of others and to Reggs to offer ownthat you guys do so well (educating the public - amongst job well done and thank you very much for what it is I subscribe to 2600 and it is a very good publication.

same son of positive influence on people. Thanks It's always good to hear that we've had

Dear 2600:

there are many usequames there... the server, but with access to their Global Directory, site). Terminal Service is open and you can occuped to formed about the guest account to log into their Infrance see what ports are open on singercore (we were intheir desktop. At least the guest account can't logon to Of course after reading the fast issue. I decided to

I think those guys are inviting infrusion attempts.

anonymous

a second time and didn't press zero this time. The message mailbox was "full." rectory of the MPAA employee phone database. Leafled coarse), one of which was "4" to access a complete di-I think the processing center was closed). I was surtrans after the recording, one of which was zero to speak prised to find more keypad options offered (by "jane" of way). An operator was unavailable (another reason than forcement" to get a certain number but I pressed anyswering machine). I was offered several key combinaa basic recording like you would find on a boose an-Masocial Day washend. Useppose the Holline staff was MPAA firscy Hotine. Naturally curious, I called this with an open stor (instructed only for "west cost law or-The cell rang ever into a recording (non-intelligent, just off for this uniforal believe because I got no answer. hodine at 1-800-062-6797 on the Studiey evening of Parter film. The letter contains the phone number of the MPAA regarding "piracy" concerns with the new Harry 23 which contains a capy of a letter sent out from the I was reading the Spring 2003 issue of 2000 on page

they have someone named Nancy working at the recording of a guy saying "MPAA mailmont." Maybe I tried "nancy" coployer that you typed speaking his or her own name. #, and then the system would play a recording of the in the host few letters of the employee's last name, press rest dial this extension, as well as a myriad of other op-MPAA's mail-com. I was able to press a number to di-The way the system worked was that you could byte just to see what I could get and I got a

teresting that the entire originate phone directory of the brikkey but I thought you would nonetheless find it in-MPAA is this easily accessible. I believe this would tys on duly at the MPAA Pincy Hother because of the I don't know if this is all just because there are no

the degradation of our freedoms by this organization.

Zen Lunatic

gating MPAA tectics isn't entirely classe But Juli mediature is almost ofteness a good thing. preceiving. Whether such information could be moful in corporate world. It's very handy in the field of social en-Such yourse are actually extremely common in the

didn't expect anything so I was both surprised and de few works ago because I was nearing your t-shirt. York. I gut a couple of really cool people in London a Behind when I received this mystery package from New 2600 in return for my photo of an Ernrean payphone. I A belated thanks for my t-shirt and subscription to

there's nothing malicious about it. beavy, this is the kind of thing I would show to comeone who had no knowledge of the backer overmanity. I finds. It's all about curiosity and self education and thought the article summed up really well the backer as by Phantasm in 19.4. Even though it was quite jargon-Lonjoyed the article "A Dumpster Diving Treasure"

back of 20.1 And of course I enjoyed seeing my photo on the

and organizing them into a guernilla army. The Ericean benefits of the strongly independent stance they have that comes with strings attached. As a visitor, it's easy to health, at the refusing to accept the kind of foreign sid government new neverts heavily in education and ever get the opportunity. I spent a few months there and they're doing really well and I really hope they reap the see where the cracks might appear, but at the moment better armed occupying force by educating its entirens race. This is a country that wors a war against a larger, it's the kind of place that gives you hope for the human Effica is a country that is well worth visiting if you

hacker community and wider society have taken with your magazine continues to benefit the I hope that the strongly independent stance that you

Mark Sadler

Dear 2600.

much werse in this case. company computer behind the threwall" deal, but it's sendy observed at my local Walgreens. As of tize, Wal applicant use. Yes, this is the classic case of "set up a ing the application kiesk they have set up in-store for applications to an all digital networked system for peogreens has been trying to conven us usage of paper from home by vesting their corporate website or by astile to apply for a job. This network can be accessed If may interest you to know of a secondy flaw I re-

surity number. Being the nice person I am I went to the processing uses advanced php to organize the data Willweb-based. Everything from the scheduling to photo-Possible to search the history, bit the buck button, and We doing so however. I got to wondering if it would be world didn't apply for a credit card using her name. Afklosk and elicited "save for later" so everyone in the ished. There for the public was their name and social senoticed that someone had left their application untilgreens receives. So in this case, walking by the kiosk I Almost all of Walgreens' office applications are

> position. last 100 or so people who used the klook to apply for a number, and various other tidbits of information of the got the name, address, social security number, phone view previously entered data. Some enough, I was able to

Ė ser, but received no response. I thought perhaps a little different about it. One employed I telled to stated six I've also mailed Walgrouns' corporate technical superviknew about it for some time but I don't think the severpublic awareness would create a sense of urgency to fix ity of such a flaw really had an impact on her. Since then I nonfied the manager of the flaw, but he seemed in-

call being monitored by Big Brother. 866-543-5435. They have a peetry fanny bit about your Just for Irm, give a call to EA's tech support line at

Economics

Dear 2600:

coffee. Why the pay hike? tween my coffee and 2600. So I got 2600 and a medium showed me the cover. So of course I had to choose he achosens it was another tax but she said it wasn't and of smokes. I went to get the mag and when I went to pay the chick said '5.50 please.' I figured since I'm in Masswith enough money for 2660, a large coffee, and a pack OK, here's the story. I writted into Barnes and Noble

affact expenses with ped advertising, a route we'd pow considerer de the Add. Commencial magazines are until to as we could and if we did so any larger, we would find for nearly energializing around us. We held off for as long four years while we've had to deal with rate increases бег нат тр бане то до донт. The fact is our price has remained the same for the pass It certainly isn't a pay like, at loan and for any of us.

now and have to say that the magnetice is awesome. Dear 2600: werr up only \$0.50? Canadian price go up \$1, whereas the American price that the price had gone up since 19:4. What I wanted to up a copy of 20:1 feve a local backstore and realized know is why the sudden price hike, and why did the Keep up the great week. Anyways, yesterday I picked I have been a reader of 2600 for a crupte of years

prides has also widered. (The Catathan price also is change, the yap between the American and Canadian trabution from here to there.) slightly higher because of extra charges uncorrect in disamount of time that has pasted stace the last price then the American doduc Second Seconds of the resplied. First, the Consoliun dollar is worth far less price. The reason for the difference in Canadian price is These really limit a non-sudden way to change the

Misconceptions

Dear 2600:

real the RIAA needing to lock within their ranks to find pirates spreading their material around the net. This is TwinZato said something in 20th about the MPAA

they are shipped to other thesters for showing. But of utoy, where most of the extra prints are destroyed, or they are done being shown. Technically, either they are time as to what happens with their prints of films after a for about avening movie theaters, I can tell you this cronies really need to do is think bug and hard about projectionists taking home entire 35mm film prints, or ion, the distros leave prints in theaters, which leads to supposed to be picked up and shipped off to the distrib-Distributors and the like are almost cheeless half of the how they distribute their films. As someone who largws han, CIX or anything else. But what the MPAA and its or the like can get his or her hands on a digital copy of a just seem dusty cans sitting in a projection room for a very true. Anyone working in a studio production house

to buy a new SUV. Fit sare if will also save counders CEO's precious each always looks better than digital, but that's an opinion ment, or heing accused of being disossers for not going way to have theater ewners into upgrading more equipsomewhere along the way. This is really just another such sent from a "secure" server such the film being encoded arers digitally via satellike uplink, etc. The film would be augment over whether to begin delivering films to thedustry for the past two years there has been a conseque eigital." It is also sad to me, because in my eyes, 35mm Why do I say all this? Because in the thester/illm in-

ment, because it does not matter how tight or how somake sure they don't out oreners in the security depart. non-wise by distributing them digitally, they need to success. But if the MPAA wants to out connect distribuused in Japan and some other countries with alleged entirely possible for anyone, in my meet, to get abold of the "other side" within your ranks, you have less all your phisticated your security is. If someone is working for HD, etc. I have beaut that this process has already been one of those feeds and record the information to their would be delivered to theaters and then projected, it is dastry" has mone plans for encrypting the feeds that fily knows that this is a ridiculous idea. While the "in-Anyone who knows anything about computer socu-

brian Potkiller

Article Clarifications

well. If anyone out there knows of a good dynamic IP IP DNS services, but I don't know which ones work bleDSL" I mentioned dissplays as a "reliable" dynamic DNS service, please for me know. that are hosted there. I also mentioned a utility called such service, but such diance I can't resolve my records before my setticle hit the stands. Dyndostory is exother IP DNS service. Embarrassingly, they had gone belly-up "Direct Cpdate." This includes a list of other dynamic to my article in 2011. 'Fun with Hosting on Ca

Nego L

was really regardly Alcom software; Attom purchased my reading!). I need to note that the klock you run into Quick/I'M back around 1998. QuickAID Internet Startons* in 18:1 (yes, I'm behind in I wanted to respect to Durketin's article "Hacking

> have given you much more of a challenge! ends for Windows. The QuickATM software would clusion that only "lazy" and "damb" developers would QuickAIM software. I strongly disagree with your conbackers. But as the seasor developer of the original was insecure; Amom's developers were clearly not I will freely admit that the block you encoupered

ril the software was running. and natural clicks. The shift keys were also disabled unpercess to disable certain key combinations (Win, enc.) atheir tooks). A VsD was loaded early in the book trole), and the user account had almost zero rights (via ware run on NT4 using NTFS (with strong access con-Want to secure the Windows book! The original soft-

deleted. locations. Regedit, rytespod, eventuand, etc. were simply vious things like Explorer were invivad into nonshadure No extraneous software (like Wincip) was installed. Ob ne "Rao" in the start menu, no items under "Programs. fake one which ignered all input), there were no icons, ren to the real desktop (possible only by trashing the ing the standard Windows one. Even if the user had got A socioti disklup was registered, effectively replac-

server (fid some content Ellering (the airports invisted). bub; kiosks had no direct acress. And yes, the proxy teract access went through a logging proxy server in the Cookies/history/etc. were all purged herween users. Inand keyboard shortcuts. No downloading of content was Only the httphittps protocols allowed, and certain other MIME types were blocked IE control, with sufficient books to disable right clicks The crippled IE4 was really a VB program using the were allowed

anything happened, we could step back through it. sont out years write only protocol to a good server, so if had to be done by opening the klosk. Usage logs were didn't create any software backdoox, all maintenance tire IID on every book (via a bootable CD). And we cally start up. Plans had been in effect to rewrite the enbours) and replugged, the reschercs wouldn't suromed books were used so if unplugged (and left so for a few two separate keys to get to the hoppy/CD drives. Note. Harfware was looked down fairly well, requiring

got in (and he kindly reported it). software was minning, we only found one person who few semi-tricky ways to got to an open/save dialog box the number of things we had to disable. There were a constantly sending updates, we couldn't keep up with way in was to bounch the AOL software. Since AOL was and into the system, In the two years the QuickATM New - was it completely secure? No. The easiest

users if we didn't allow them access. Popular browser aren't supported, and market research (in 1995) indisupport for Linux was also behind the curve (at the time, cated that we would lose about a third of the potential I think Notscape 3 beta was our best abotes). Why didn't we develop on Linux? AOL/CSave

maybe low-defect....) way to develop quality, accordefact software, (Well time trying to hack your own system - that's the only trapping all possible exceptions, and spending personal firem having expéritable bugs. Being hands-down tricky However, obstact of language or OS won't stop you

(currently looking for a job?) Mare Wallace

using an evarigite. If it's possible, then I'd like to learn 20) I was just curious if this is true or if you were just down three buttons on an ATM and it would give you more. You don't have to that our tell me, just point me in ong to the article "Not In Our Name" about holding is the newest edition of 2600 you mentioned some

Pittelnazard

the right direction.

past month of his. grange behavior we've been steing at ATMs over the stended example. However, it does explain a for of the Mo, we didn't mean to start a partie. It was a hypo-

Dear 2600:

Kindedy. spedistants everywhere, but thete days except to CD into pieces? Sure, they susp with a being and send to stoying the data on CTs in 19.4. Why not just break the Twiss a little passibility Gifly tliquit's unicle on de-

caough Job when broaking the CDs. people graning lack over time and not doing a thorough He would guess that it's get something to do with

Dear 2600:

 Splitshacrocou appraisal briefly. page walked by one whole it was rebecting, and the NT things, I can continu for him that they run Windows. I Louissed Area 51% article on the Cainstar ma-

Dear 2600:

characters in the code as "I" and "I" respectively. for 2011 it looks like you printed all of the "<" and ">" rendering the code useless unless fixed. In the IBaySpy Portal Software article I submitted

We applied by the court which was carried our

Dear 2600:

for their normal operations. one gode. They use the cut 5 running up into the ceiling much. The only reason he saw them is the entire store is first, the POS terminals mostly don't use the 802.11b destanding of what happens with it and topography see it every day. Here are some connections to Kairi's onarticle on the Kroger SOL 11b network, mainly because I The list of 2000. This time I was surprised to find an It's been a fittle while since I have been able to pick

emails that come in and out of there. It's fairly boding thow what happens there, have fun. I know the type of guess is the mail exchange server. If you really want to The WEP encrypted network that he found I would

Mark prices. The main ressort suggest staying awaity metridually feactions. That system I would suggest seen-Odes and item names." That's describing the SPAA sys-10 WX 8 person to order new items to the system and and of the the most part. It exertains a mode that clwith This system is used by the Sear Coordinator for With functions, to ordering shelf labels, to extering U.P.C. Next we have the login he discovered. "...cash regas

major legal trouble.

clear is that it's one of the ones that will just you into

dering items in to the store, "clock," POS services, and Heven't dop't that again.) charged. They can cause big problems too. It acciden ning diagnostics on the network and running beach mention that russ QS2. This machine is mainly for nonthis before.) There is prother machine that he didn't e-mail services are normally run from a wired terminal rally can a large sponker of files on the wrong day once. fice to quickly change all the prices that need to be files." This is a secot files, that is sent from the main of mally. We all use OpenServer, If we complained about dering program are run from a wireless hundheld nonthe ordering program. SPAA and the first half of the orbrings up the time clock. There is a separate legis for or-'clock' is run from a Wyse terminal, along with half of On a happier note I'll give you some clock. "disck"

Hope this helps in any explorations and makes it a

Flat Line

Dear 2600:

the AT&T ANAC the BTN is what is read back instead opposed to Flex ANI like most ANACs do. When I call an ANAC for AT&T that reads back "real time" ANI as ences in Flex ANI and "real time" ANI, I was wrong of the specified information. Surry for any confusion call. The real ANI for the cell is in fact the BTN. I have tance charges will not be billed to spoof ANI unless you about the PRI line information I provided. The long dis-800-555-1140. It isn't however, the real ANI for the ANI is the ANI you get when you call an ANAC like "real time" ANI to do the billing. The difference is Flox are using a toll free service that uses Flex ANI instead of that at the time I was very confused between the differ-Regarding the article I whote in 20.1. I have to add

1.000 or greater watts ERP bowever. the antennas. The power gain of the antennes may reach believe is under 1,000 watts, probably a few hundred, to not even ERF (Effective Radiated Power). The power I anywhere near 70 megawasts power beaming to earth de on XM in 20:1. The XM satellites do not put out First off, I'd like to point out an error in Acides' arti-

transmission of 200 khz handwidth (analog) and the tion schemes to get a high data rate over the lines. pling the audio, digitizing it, and using digital moduleworth of analog audio through the POTS lines by somveiceband audio, yet we can pass a 16 khz or better digital 125 khz bandwidth of XM is like comparing ap-Traditional POTS lines were ment to pass a 4 kine tion digitally in less bundwidth if done properly ples and cranges. You can convey much more informs-The comparison of a commercial wideband FM

ulotion scheme they are to transmit the data. A CD typi quality sound. The key thing to remember is what modchannel to be very surficient to pass near CD, if not CD khz (I have not seen the specs yet) bandwidth of the XM even prevailed at decoding XM. I believe that the 125 got locked up, or I'd probably have played with and I'm going out on a limb here. XM came out after I

cally is on the high end passing suctor frequencies of 22 kbz, sampled at 44 kbz to accurately record it digitally. Without overhead (Tve fargotten the math and science). I think at least 85 lbbs of bandwidth in an RF elannel is needed to pass that audio in digitized form.

As in transferring computer data, the simplest form is brainly. However brainly is not very efficient. In the old days of the Bell 103 and 212 moderns, a treet was sort for Mark (1) and another for Space (0) to transmit the data. This was fine for SiO and 1200 band line speeds, but going beyond that, a more efficient data modulation scheme was modeled. Quadrature Amplitude Modulation (QAM) is used by 9000 hand modern and higher data rates by Quadrature Phase Shaft Keying (QPSK). Its level (16PSK), and other coolic schemes allow for higher bandwidths (data rate) to be passed over a certain bondwidth of RF (Radio Frequency) channels, or analog lines such as POTS.

Then we get into compression. At the analog level, FM stations compress the audio to make it loader. They do this to make their stations stand out when stations scans the FM dist. People tend to stop and listen to the badder signal that is pleasing to their ears. Digital compression, such as the tones mentioned in the article trade the digital stream more efficient to transfer, like zipping a tot file. You do lose some audio quality with malog or digital compression.

Audio quelity off of XM or Sidus will probably never be CD quality as the world is not perfect. Allor of error correcting goes on and of course dropped data blacks. All Yinds of things can happen not a radio signal traveling 22K miles. Even CDs are not perfect audio compared to what the artists played onto the master tapes or even what comes off of the master tapes from the audio couple of a CD player on an oscillosted with a subject of the audio couple. Not perfect sine waves, but jugged once, but that is an audiophile can of worms.

Acidus did give some food for thought. If I was not looked up Id be probing the topsets of XM and Sirius receivers. I but the companies are happy to hear that?

Flame away guys, I need the snait mail

Moembringer
William K. Smith, 44684-083
FCI Cumberland, Unit A-1
P.O. Bux 1000
Cumberland, MD 21501

Clearing Blockages

Dear 2600:

Have heard many people complaining about a URL being blocked by their school or some other place. To get around this is fairly sample: free anonymous public grossy servers. This weeks in my school, but I don't know about others. I would imagine the same thing would work.

One I hagger to like is hap-two-warrumphpa conskyti-bia/sph-proxy cgi

I used it all the time and can use the net without the "Violation of Terms of Service" crap my school likes to display what trying to visit sites, same of which are even school related.

Just search for proxy servers on the not and if your school blocks the one you use, find another. There are thousands:

Skuzz

Dear 2000:

Indiced there were a loc of letters sent in complaining about the filtering software at schools, etc. And while the altavista method does work most of the time (to my experience anyway) I've come series a better method.

for people in China. you to browse anonymously and works with all (to my or referent information. This little script will even allow form, which allow you to disable cookes, sorpe, ads experience through the little checkboxes below the is installed and run it, you just type the site you wish to it's abstalled on an https://location.itself. Once you have baye to do is load the script onto a webserver and call it asked if it's okey for you to visit a particular site. All you to broase indirectly, so the filtering software is never (http://www.jmarshall.com/books/giproxy/) allows you visit in the form. You can also customize your browsing be gible to get imp https://liceurjons like Hannail, tastess knowledger fiftering software. The even heard it'll work when you want to visit a filtered sale. It won't, hewever A refty little CRI senge called CGIProxy

There are instructions on ParacFire (www.pasasfire)impleirconsweater/simple-einconventor-snatrus/starshund) for serring your home computer up as a websenier using this method, which includes installing SSL so it should be you into your Botmail account, etc.

If you install this on a webserver, I strengly ungaryon to put a preservord on it, or at least change the name from ... "high-generacy.cg." to something like "nph-Sheldf.egi" to avoid it's being used for anonymous attacks.

Bullet

Desc 2600

 that's where I found this site). sites of this nature. You just have to look (maybe google this helps, and if it's already blocked there are group downloaded and works great. You can read more in dehttps://www.negsprovy.com/_secure/_ This_ size_retail on the site as I want to keep this short. Hopefully quires no additional software or active x centrals to be 128 bit SSL encryption One of my favorites is allow you to tunnel through to blocked websites using chance your IS department hasn't blocked websites that So here is one of many solutions. There is a good have Internet filtering software (websense - www.webdue to their school's proxy. This passes me off, I also who was having a problem downloading Off The Hook pecially when you want samething a little stimulating my office. Lunderstand how frustrating this can be, assense som) that blocks 2500 som among other sites at This is in regards to "2600 Reader" in issue 20:1

xign

by Bill Melater retaleMliB@hotmail.com

Remember the old days when a good way to get the latest software was to get a group together to buy, it and then make copies for everyone? You thought MS killed that with their one-activation-per license scheme for the XP state, didn't you?

Don't they wish. In this article the author will show a realistic way that the average user can, with the at a CD writer, create copies of Windows XP Professional Edition that act just like the genuine article. The information presented in this article is presented only to show the weaknesses of Microsoff's latest copy prevention scheme. Bo user come crying to the author if you use this information inappropriately and a massive herek of gray-suited attentions descends upon you and pick your bone's class.

the other bundled software.

First a little background on Windows XP, which comes in many forms. The Professional Edition comes in (at least) these flavors. Academie for students, MSDX for developers and consultants, Retail for average consumers. Branded OEM for major computer makers like Dall and Gateway. Unbranded OEM for small computer makers, and Volume License (or "Corporate") for companies that buy hundreds or thousands of expires at a time to distribute across their caterprises. All the various editions need a product key an order to be installed and activated; we've all seen that little yellow label on the back of an MS product with five groups of five characters.

and the little yellow label. However, after Service Blue List key gen) to generate a product key and XP Pro by using a key generator (e.g. the famous Windows XP, one could activate a copy of Windows they can't identify your individual machine). The contact M\$ for permission to use the software - the walking through the activation process just like you Key Previous to the release of Service Pack 1 for generalized information about your computer (no. by doing some much on the CD key as well as some turn. The long number you send them is generated long number and they send you a long number in reintamous 'product activation' step of the install ong number they send you is called the Activation When you activate Windows XP you send them a Most of the flavors of XP require the installer to

Pack I was released, M\$ began validating the product keys submitted for activation against a database of all the product keys that had actually been

shipped to resollers, and it became impossible to use

a take key to activate most copies of Windows XP.

There are, however, two flavors of Windows XP, that on copies are however, two flavors of Windows XP that Obst to not require the metallic to activate. One is the Beanshol OEM flavor, which often comes pre-installed and pro-accurated on various mass-market bardware, such as the taxest Delt PCs. This flavor is not so good if you wanted to install the software on multiple PCs. It often work recognize hardware orther than that which it came with, and most major manufacturers don't even ship a Windows XPCD as such with their machines; they instead merge it with

The other flavor of XP Pro that doesn't require activation is the Volume License, or Corporate, flavor. The story behind it is that admins at large installations don't want to make 1000 cells to MS every time they reli out 1000 new PCs. Increasingly, when a user reports a problem with his PCs the admins simply replace all the software on the needing. OS included, to avoid having to 60 any mossy troubleshooting or walk over to the user's dosk. The way the installation works for XP Pro Corporate is that the installation energy to install and activate the software - M\$ is never corected. The installation process can then be automated and made invisible to the user, saving the admin a lot of time.

It ought to go without saying that anyone who wants to install Windows XP on multiple PCs wants the Corporate flavor. The problem is that the average for simply doesn't have access to a CD that contains the Corporate flavor of Windows XP. But most people know someone who's bought a retail copy, or could find several people who'd be wilting to pay for a share of a copy at a local retailer. The mack is making the software available to more than one computer.

Hore's the step-by-step guide:

Obtain an off-the-thelf copy of Wandows XP.
Pro and copy every file on the CD izon a holding dinormy. This is the easiest, if not the quickest, step.
Obviously, you have to be careful to keep the directory structure intact.

SETURENT OEMBIOS.SI OEMBIOS.DA OEMBIOS.CA OEMBIOS BI PIDGEN.DLL MISHERY EULAINT DRCDLLDI

SETT PREGIBIV

WIN9XUPG/WIN95UPG.INF

is in the WIN9XUPG subdirectory of 1386. the Windows XP CD, other than the last one, which All the files are located in the 1886 directory on

widely available, but they can be had from various will come with handy instructions. named corpfiles semething. Semetimes the package peer-to-peer life sharing survices, often in a pockage The "corporate" versions of these files are not

tory, then copied them one by one to their first dosinto your holding directory and the files will go logal it might be. copy of the software, except to advise you of how if has no bearing at all on whether you can make a rinations. Note that not all of these files are silvady had, I extracted mine to a temporary directhe package actually contained different files than I where they should. In order to help me verify that absolutely necessary - EULA.TXT, for example, divertory. You can usually just extract the .ZIP right if) Meage the corporate files into the helding

to get a copy of Windows XP. But if you're going to executive stringered: after you install. To slipstream the service puck. now will save you the long process of applying SPI MS's web site and stipstream it into the holding burn it to a CD, why not do it right? Doing this step directory. This step is not necessary if you just want 4) Download the Service Pack I Installer from

XPSP1_EN_X86.EXE-5:CVHOLDARPPRO

remporary directory and then error out, most directory of your like set or the service pack tory. You have to supply the complete path for the is called XPSPL EX X86.FXE (it is if you downinstaller will just copy a huge itember of feles to a that your file set is in the CMIOLD/XPPRO direcload it from M\$ and don't change the name), and Lassume here that your egy of Service Pack 1

for XP into it, along with the Blue List key generacalled "Tooks" in mine and put all the Power Tools into the holding directory. I made a subdirectory for, a text file that coptains a few known good prod-Add any other files you might trible are hardy

> Windows XP Professional Edition. any utilities I might need with a fresh install of use keys, instructions for making another cupy, and

not listed is ignored by the installer, so feel tree to where it will belong when XP is all set up. Any file keep other things handy on the disk. of every the their the installer knows about end file called TXTSETUPSIF that contains a buge list there are additional files on the CD. There is a large The Windows XP install routine does not care if

executable of about 49,000 bytes. ally can be found packaged in .ZIP files with asmes less to search for the program by maine, but it usufor 'Windows XP Corp.' This step is also not easy. like "Windows XP Crack" or the like. It is a small obtain it with a file sharing service. It is almost fruit nally get this program off the net, or long waits to It could take a few hours of careful searching to fi Windows XP suite and use it to generate a few keys 6) Obnasi the Rise List key gavernoor for the

a time and then tries to validate it by using an aigogroup that produced it) makes one candidate key at preduct key software. half of these will be accepted by Windows XP's date keys pass the program's test, and only about than 10°25). Only about five percent of the candikeys - but the key space is still very large (greater and numbers are never used in Microsoft product real keys have a limited character set - some letters rithm like the one Microsoft's software uses. The The Blue List key generator (named for the

my ArhlonXP 1700+ it takes about 30 seconds for the program to generate one candidate key. are enough product keys to pusitation success. On If could take the better part of an bour to gener-

with four keys that I could try during the installation valid) pretty high. I set each to 100 and ended up the number of keys it finds that it believes to be didates to try) and number of keys to stop after (i.e. manber of Keys to generate (i.e., the number of ear-DOWS XP CORP" from the drop down. Set the In the Blue List key generator, pick "WIN

at least one that woulds geocrate 10 or 12 keys so that you'll be sure to have puler (that is, only one means to generale keys), to It's a very good idea if you only have one com-

software passages and that they don't come with some CD-burning that you must have in order to make a bootable CD. mon CD burn undity that supports making bootable so that you have an awareness of what's going on in some of the literature I mention in the Links section a boomble CO-ROM using your file ret. I used a CDs. Be aware, though, that there are certain files this step. It is possible to use Nero or any other comthe fly and burns it to a CD. You should read at least neat little utility that generates a bootable ISO on 7) Иве урил Јеконде Брлатер извикала го стоя

> 48x CDROM drive. on an AdilonXP 1700+ with 256MB of DDR and a attiloo with 128MB of RAM and about 25 minutes gardware. It took about 45 minutes on a 750MHz Quidows XP takes about half an hour to install on a good much sit back, relax, and enjoy the show. moderately fast system, and much longer on older affered to as a "Valume License Key." This step is may that when you're asked for a product key, it's 5) Install Windows XP Professional Edition, and

drive NTFS from the beginning Windows 2000, you'll have to convert the life syscompletely blank hand drive. Without the hootable CD ROM is that you can install Windows XP onto a want to use. With a beocable CD you can formar the tem later on from FAT52 to NTFS, if that's what you matted the hard drive, and if you don't have XP or CD. Windows XP will want you to already have for One of the nice things about having a brotable

text file in the 1386 directory called WINNT.SIF and porthese lines in it. Another nice thing you can do is creare a plain

UserDate!

ProductID=FCKGW-RHQQ2-XXRKT-STUSW-

to save themselves 25 keystrokes every time they product key during install. This is what admins do work, as it could cause you to waste a CD or two. If before you know for sure that your product key will ISTAIL WINGOWS XP you have this line, you will not be asked to input the PCK with yourgood product key. Beware doing this Replace the scales of characters that starts with

and key with Service Puck, I, disabling it. age it wall not work. Microsoft specifically targeted water the new oreings to use the object product

for updates to a copy of Windows XP Electrical acscenes and therefore share its notorious vulnerability that use components of Internet Explorer behind the Media Player again, there are many applications You don't ever use Internet Explorer, Outlook, or instead. While you're at it, apply http://www.windowsupdate.com, which will not of Explorer that comes with Windows XP and visit the system may that indicates your only isoldierready activated. There are three ways to do this. The scurity-related updates that are waiting, Even it and way as to note that there is no blanking scon, it sted. Another way is to use the copy of Jacobet 9) Verify that your copy of Windows XP is al-App the

o execute the command: The Unit way to senty your activation status is

Charles a department of the second of the se

Strongting you for your location and beginning the though the activation process if not. Rather than whether Windows XP is activated and leads you MSOOBE is the program that determines

activation process, the resulting window should often, just for the warm, fuzzy feeling I got activated." I like to run this command every so simply say "Your copy of Windows XP is already

that. Finding them out I leave as an exercise for the most likely would have to find a way around the sebe reactivated. If that were the case here, the user in a Windows XP competer will cause it to want to mally, changing more than three or four compensation rivation process again. There are several ways to do 10) Enjoy? But beware of a few things. Nor-

out in the cold, or given to destruy such software. a machine that is running a copy of Windows XP tainly be within their rights to engineer Service been able to enjoy its benefits. Microsoft would corkeys to install Windows XP were left out in the cold lot of people who used the famously leaked product MS should beef up their copy-prevention efforts. A that was obtained by the method described above if Me. Forthermore, I do not know what will happen to taw; and to actually do them could lead to legal trop could be connier to US and international copyright Pack 2 to leave everyone with allegitimete copies when Service Pack I was peleased and have not Bear in mind that the actions described above

comparing for the balk of its profit and only re-XPIoit. software with an Achilles, heel that the little guy can companies has left its newest, most copy protected possible to use these huge corporations against each on hetween, individual users; Meanwhile they had to other Microsoft's dependency on other massive happy. The begaty of this whole thing is that it is keep their original customer base, the corporations, amounts as copyright pollution that had been going cently began even to try to roin in the massive Microsoft has for years depended on other large

BihliographyLinks

cludes the instructions and software the author used zó make his CDs bootable. http://www.nu2.nu/booned/ is 'pz well-maintained pagg that describes bootable CDs in detail, and in-

http://www.licenturical.com/spyfally-lacrasedprivacy that some believe mem to be. and reds why they aren't the enormous threat to thar Windows XP uses to generate activation keys. 1990 for is an older page that describes the algorithm

outs of Windows Product Activation that this author http://www.estremetech.com/aut/de2/0,3973; 1300 has seen, even though the article predates Service U222.60.669 is the best description of the instand

other side" of the piracy/WPA issue. between the lines, and also a good source for "the activation/windows.psp/.asp is telling if you read ық Лимитістолуп, сынфиласубаліся

Kappenings

ing" will take place than Sedin. October, Parkingards are transmitted to the representations. For those who don't field like example out, various exerts that to memora the city of Sedin, better exert for lower tests of the compound. The Ottob Communication Compounds of Ottober when the compound of the your than 3600 is offlicing \$100, 150, 350. this year's even in Germany, with the Choix Communication Chap nity on hidding our fifth HOPE createrancy For more information on suggest that attractor by scenaring different and become ingreved by speeding backets from other parts of the world. Two years ago we stelled at speeding backets from other parts of the Watherhands Neon year scene plants. tembered years when there each a LOFE performance in New York, see place August (+10) 2001. The Taternalisms Backer Open Acritishters THE SOCIOUS CHACK COMMUNICATION CAMP will use durant services and

2002 maximps. We exect around 14.00 (2 per) as fine and the GVM of-fice a contible. We hope to see you there! More informative found at a Alaphon organized impouring the modern point of the central da-tion of Check in the Nederlands. Everyone intercound in hashing ac-land eithoris to perform on decreasy. These moderns are deriver in the Detect to website for one details was intended at our plants a condi-DET(CH HACKER MEETINGS Coarg where Standay of the poorts INTERCONE III. Again 2004. Not just another hackers' out 1 May a sea blights no mornings hard

Substitutions such at SOO per jeen. One has per an WIRELING SECT BITTY PERSPECTIVES, Mortily condenses grafi etiomunes de vicaso sounny Loeth has to prese por oci-blu. PCS DG Burdoull, w WEI golden from 200 souten.

aparantat, whost, or the matterial year proprogrammal interteers smaller, booker will always be when each you! Also ideal if you don't want in "the fine" pour exteptions at more than were expense to be when eacher Mari for B. Du daterry, Alzhemer Mainte, lee cogoldenge, spriftens ethers, bekers, and computer wicards. Give use to a boyight triand orns the peared if "concern" you mean at a pury the is all yet leadly at length blacks by altegenes. Key majority, blacked graphicly and blie Money order only, \$24.95 ± \$3.20.545. Mail save up to 15 and who digits. Unit a hidd garments weighter a re-solver's minighout for dialing. Pleas "HOME" to introduce to dialing. PHONE HOOLE. Top, who additions. In the owner, programmed the programme the reach years, but the growing (DTMT) distance that our Box 415800, CRO, Moreous SOI-11. order to: FI CONE I COME, Nitted Division, NJ N. New Halba Road the should digit which can then by heart formed the other owners or contract the last

TAPATE. The original phoesing and hooting sines? All original was to use on CO-BOTA. Only \$1 rentaing prough. When we allow only of the entertaint CO-BODES Withfields, Soc 8619. Years's SC, VSW 332, Counts.

righted in hitly of 2000, to 26% paics in learth, his a expected mind pitch of \$50,5% and is a perfect bound paperheds book. For a limited time, you may expect two ethyping on the rite within the UKA where Proportion of Manad of Exploration as new release by famil B. Ledgard. This is not step in real-based that the old the energy agent of proport proportion, the old type of the second that the conference. This is college in the old the conference of the old type of the proposed that is the proposed that is the proposed the old that the proposed the old that the proposed the old that the proposed that is the proposed that the posed by Automore "feet topics sower" sligging effect. For contradic matter or or place an order, place world. I SOO: 81.8985 and possiplaced on sife handling and anarolations of the explaners compositions described within The Propagatory Mount of Explosives was empty explosives is both connecting and feedbashing, and now you con easily understand the working mechanisms of them when you much 3.5% ophica 2 vibra pou hearder euro rechu, vied vie venezane europeane e sevent de 198N il 9712362 0 9 or vibit purchased through amount corn (cityota or force and consistents on-English for consumption by the areaty person. A major engineer of ples behind from? Do you more with radios than this? The science of EXPLOSITED ARE PLOT But do you neally underseard the person

coratived) and stips worklaste, happer implying thepd intentions will be detected also wit matrix to night to reflect version or any codonas el my lens. crofts cards to well to checks many orders, and well-constant dead adem pe adisers spilling recentag 1990g-bishoon hiddensammen was

> world of took picking. Send owing backs to Standard Publications PO Eve STORIO, Chappings, II, 61825 to 683 to at new york docket Kenfers weakness of addy's bobs. If you want to get where you are old sup-posed up to, and book qualifier year, as wor largister the empowering considerational for year 360 modernment discount time age though the front door, be source from the words and don't want you to know, kny earning sy earning he haven, many LEARN DOCK PICKING In EASY victors back. Our rewisting with the more corresping over \$1 and illustrations. Learn shall try

griphine below, more, and more flowed high fisher, we construe and grow by solved ling fish or first emergens due to system and home of control with effection control and find to except all Order years either a sequence flower and entire polytonic pathonic production. All of the sequence flowers are the control who dischard a wear softeness and to the control flowers and the control of the design of the control of the control of the design of the control of the design of the control of the con HEBSEDNE, the first and only averably companion Careira forces ing are and popular software, not files, a books, reviews, actorials.

a 2000 member by daughing year keystain, and sugarg coding. Obeside belt and generately 2000 he, cover the solid belt and generated hereigness, the best tools to said your day or daybur. Also, and discovering the best tools to said your day or daybur. Also, and discovering the best tools to said your day or daybur. Also, and discovering the property of the prop omeo Cladro money order only. Mait so WHISTLE, P.O. Sov. Hotel. ST. Ch. Missouri 63103. ideplant source outsid devices. Place includes untiling 1990's. No. only week contribution but a VERV USERU, feeder in comy or all more! Reserve have been painted as a second as more types on an five who can this tray and Goverthey are gover, that is it in their are po 08092 WHISTLE in micromition never need Join dweller

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An outdoor booch operated by Cable & Wireless on one of the islands of Turks & Caions.

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